

# **EXHIBIT 3 Part 1**



May 25, 2022

Mr. Wiley Bracey  
U.S. Army Corps of Engineers  
1949 Industrial Park Road, Room 140  
Conway, South Carolina 29526

**Re: Silicon Ranch Lambert I Solar, Georgetown County, South Carolina  
Pre-Construction Notification Pursuant to Nationwide Permit No. 51  
SAC 2021-00411**

Mr. Bracey,

In order to generate renewable energy under power purchase agreements with Santee Cooper and to align with Santee Cooper's 2020 integrated resource plan, Silicon Ranch Corporation (SRC) proposes to construct the Lambert I and II solar facilities on approximately 2,000-acre property in Georgetown County, South Carolina. SRC, the applicant, and HDR, Inc. (HDR), the agent, previously submitted a Section 404 individual permit application, Section 401 water quality certification, and state coastal zone consistency request for the project on December 20, 2021. A public notice was issued on January 28, 2022. Comments were forwarded to SRC and HDR after completion of the 30-day comment period.

Since this time, SRC and HDR have revised the density of the solar panels and reconfigured the site to minimize impacts to wetlands and waters of the US. On behalf of SRC, HDR is submitting a Pre-Construction Notification for Nationwide Permit (NWP) 51 (Land-Based Renewable Energy Generation Facilities) for the Lambert I Solar facility under Section 404 of the Clean Water Act. SRC and HDR are also requesting issuance of a Delineation Concurrence with the NWP authorization. In addition to this letter, HDR has enclosed revised permit drawings and compensatory mitigation calculations.

Should there be any questions or additional information required following the review of the enclosed materials, please contact me at (843) 414-3740 or [blair.wade@hdrinc.com](mailto:blair.wade@hdrinc.com) should you have any questions or require additional information.

Kind regards,

A handwritten signature in blue ink that reads 'B Wade'.

Blair Wade

HDR Project Manager  
Southeast Renewable Energy Lead



Attachments: Supplemental Information  
Adherence to General and Regional NWP Conditions  
Joint Federal and State Application Form  
Attachment A: Figures and Permit Drawings  
Attachment B: Adjacent Property Owners  
Attachment C: USACE Wetland and Stream Mitigation Worksheets  
Attachment D: Agency Consultation

CC: Connor Echols, Silicon Ranch Corporation  
Michele Culbreath, SCDHEC Bureau of Water  
Ben Thepaut, SCDHEC-OCRM



## Supplemental Information

### 32. Description of the Overall Project and of Each Activity in or Affecting U.S. Waters or State Critical Areas

Silicon Ranch Corporation (SRC) is a renewable energy developer founded in 2011 and based in Nashville, Tennessee. Under the proposed project, Santee Cooper would enter into a 30-year power purchase agreement (PPA) with SRC, via SR Lambert I, LLC and SR Lambert II, LLC, who would construct and operate two single-axis tracking PV solar power facilities directly adjacent to each other on a 2,082-acre site in Georgetown County, South Carolina. The Project is located on land currently owned by RMS, a timber management company. The site is bound to the north by Alt. US 17 (Saints Delight Road), to the east by Wild Horse Road, to the south by County Road S-22-387, and to the west by Windum Drive. The Project is approximately 6.7 miles south of the town of Andrews, South Carolina.

The Project Area has been in silviculture for over fifty years based on historic aerial imagery and USGS topographic maps. The site is under active silviculture and large portions of the site have been timbered. A network of ditches is present on the site that support an altered hydrology. A series of unpaved roads are located within the Project, largely providing access to different timber stands.

The proposed facility would connect to the existing Santee Cooper 230-kV transmission powerline adjacent to the Santee Cooper owned substation, which are both located within or immediately adjacent to the site.

#### Proposed Solar Facility

The SR Lambert I solar facility is proposed to be developed on approximately 1,071 acres of the 2,082-acre parcel. Approximately 16 to 20-foot-wide gravel access roads, which predominantly align with existing timber roads, would provide vehicular access to construct and maintain the solar panels and inverters.

Anti-reflective solar panels would be used, which minimizes the potential for glare or “lake” effects. The arrays would connect to central inverters to convert the DC electricity generated by the solar panels into AC electricity for transmission across the Project’s electrical collection system and to the Santee Cooper distribution system.

The PV panels would be mounted on motor-operated axis tracker structures, commonly referred to as single-axis trackers. The axis trackers would be designed to pivot the panels along their north-south axes to follow the path of the sun from the east to the west across the sky. The tracker assemblies would be constructed in parallel north-south rows using steel piles.

#### Erosion and Sediment Control

The project design would adhere to SCDHEC and Georgetown County stormwater management regulations and standards. As part of NPDES permit authorization, the site-specific SWPPP would be finalized with the final grading and civil design and would address all





construction-related activities prior to construction commencement. Silt fence, sedimentation basins, and other appropriate controls would be used, as needed, to minimize exposure of soil and to prevent eroded soil from leaving the work area. No sediment basins would be placed within wetlands. Disturbed areas would be seeded post-construction using a mixture of certified weed-free, low-growing native grass seed obtained from a reputable seed dealer and in compliance with the requirements established by the local office of the Natural Resource Conservation Service (NRCS). Erosion control measures would be inspected and maintained until vegetation in the disturbed areas has returned to the preconstruction conditions or the site is stable. Water would be used for soil compaction and dust control during construction.

A construction assembly area (laydown area) would be constructed in uplands for worker assembly, vehicle parking, and material storage during construction. Following completion of construction activities, all trailers, unused materials, and construction debris would be removed from the site.

### **Construction**

After installation of erosion and sediment control, SRC would construct access roads, primarily using existing timber roads. SRC's standard practice, which would be employed on the Lambert I and II Solar facilities, is to work with the existing landscape (e.g., slope, drainage, utilization of existing roads) where feasible to minimize or eliminate grading work to the greatest extent possible. Due to the existing flat topography of the site and the use of single-axis tracking, minimal grading activities would be required to achieve the final design. No grubbing or grading would occur in wetlands.

SRC is considering implementation of the SCDNR's Technical Guidance for the Development of Wildlife & Pollinator Habitat at Solar but has not determined if they will seek certification of the sites at this time. Pollinator plantings around the perimeter of the site and the use of wildlife fencing are proposed on the project. Vegetative screening is also proposed in areas where residences are adjacent to or across from the proposed solar site.

The PV panels would be installed in parallel north-south rows on the Project site. The arrays would contain an inverter and trackers of panels. Electrical cables would connect the rows of PV panels to central inverters. Solar panels will no longer be placed over wetlands and would not result in trenching impacts. If a medium-voltage or other electrical connection must cross a wetland, it will be directionally drilled below the wetland with pits located in uplands.

The project would connect to an existing Santee Cooper transmission line that follows the western portion of the site. A substation and switching station will be constructed in uplands adjacent to the transmission line. The project would be secured with an inverted wildlife fence which allows for the passage of small mammals and other animals. In wetlands, the fence would be pile driven and not trenched. The fence is currently shown crossing non-wetland waters and would be designed to avoid placing poles within the waters or impede flow. Construction activities would take approximately 18 to 22 months to complete (anticipated to begin in September 2022).



## **Project Operations**

During operation of the solar facility, no major physical disturbance would occur. Except for fence repair, vegetation control, and periodic array inspection, repairs, and maintenance, the facility would require relatively little human activity during operation. Permanent lighting would be required at the substations during operations.

The Project site would not be staffed during operation; however, inspection and maintenance is required biannually and in the case of equipment failures. Vegetation on the site would be maintained to control growth and prevent shading of the PV panels or interference with the tracking mechanisms. Maintenance of vegetation in wetlands within 200-feet of the proposed panels may occur every 3 to 5 years to prevent trees from shading the nearby solar panels. No grubbing would occur within the wetlands. Selective use of spot herbicides may also be employed around structures to control any invasive weed outbreak. Sheep grazing is not proposed for the Lambert Solar sites.

## **Decommissioning and Reclamation**

The Project would operate and sell power under PPAs with Santee Cooper and Central Electric Cooperative for up to 25 years. At the end of the PPA, the Project staff and Santee Cooper or Central Electric Cooperative would assess whether to cease operations at the Project site or enter into a new power purchase contract or other arrangement. If Santee Cooper, Central Electric Cooperative, or another entity is willing to enter into such an agreement, the Project could continue operating. If no commercial arrangement is possible, then the facility would be decommissioned and dismantled, and the site would be restored. In general, most of the decommissioned equipment and materials would be recycled. Materials that cannot be recycled would be disposed of at an approved facility. Georgetown County's temporary zoning permit and the project's plans, funds, and agreements require SRC to decommission the project after its useful life. After decommissioning, the site will revert to its current zoning.

## **Site Characteristics**

### **Wetland Delineation**

Prior to undertaking fieldwork, HDR scientists conducted a desktop review of the Project Area utilizing a number of resources including U.S. Geological Survey (USGS) topographic maps (Attachment A, Figure 2), aerial imagery (Attachment A, Figure 3), United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS) Soil Survey (Attachment A, Figure 4), the USGS National Hydrography Dataset (NHD), U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI), and Federal Emergency Management Act (FEMA) floodplains (Attachment A, Figure 5). All figures are in Attachment A.

Jurisdictional waters of the U.S. were delineated according to the methodology and guidance described in the USACE 1987 Wetland Delineation Manual and the 2010 USACE Atlantic and Gulf Coastal Plain Regional Supplement (Version 2.0). Field work was initially conducted from mid-June through early July 2020, during a period of above average rainfall based on the USACE Antecedent Precipitation Tool. The site was revisited May 3 – 7, 2021 during a period of



slightly below average rainfall. A request for an Approved Jurisdictional Determination (AJD) was submitted to the USACE Conway Regulatory Office on August 30, 2021 under the 2020 Navigable Waters Protection Rule, which has since been vacated. A site visit with the USACE was conducted on October 20, 2021 during slightly below average rainfall conditions. Field work as conducted November 8 – 10, 2021 in consideration of current wetlands and waters of the US regulations and data collected during the USACE site visit. Wetland boundaries have been revised and are reflected in the permit drawings.

The Lambert I Solar site contains approximately 16,463 linear feet of non-wetland waters (streams) and 157.20 acres of wetlands (Attachment A, Figure 6). A summary of on-site wetlands and non-wetland waters is summarized in Table 1.

**Table 1. Summary of on-site wetlands and non-wetland waters of the U.S. on Lambert I Solar**

Feature Name	Latitude/ Longitude (decimal degrees)	Type of Aquatic Resource	Cowardin Classification	Estimated Amount of Aquatic Resource in Review Area
Stream 1	33.348540/ -79.525131	non section 10 - non-wetland	R4SB	Length: 0 ft. <sup>1</sup>
Stream 2	33.344976/ -79.528536	non section 10 - non-wetland	R5UB	Length: 0 ft.
Stream 3	33.322933/ -79.540133	non section 10 - non-wetland	R4SB	Length 10,601 ft.
Stream 4	33.322028/ -79.53768	non section 10 - non-wetland	R4SB	Length: 555 ft.
Stream 5	33.332287/ -79.558224	non section 10 - non-wetland	R5UB	Length: 5,307 ft.
Wetland 1	33.348376/ -79.517711	non section 10 - wetland	PFO	Area: 0 ac.
Wetland 2	33.347505/ -79.520419	non section 10 - wetland	PFO	Area: 0 ac.
Wetland 3	33.345799/ -79.523997	non section 10 - wetland	PEM/PFO	Area: 0 ac.
Wetland 4	33.342156/ -79.518865	non section 10 - wetland	PEM	Area: 0 ac.
Wetland 5	33.340963/ -79.521878	non section 10 - wetland	PEM	Area: 0 ac.
Wetland 6	33.340808/ -79.528082	non section 10 - wetland	PFO	Area: 0 ac.

<sup>1</sup> A "0" indicates resource is found on Lambert II Solar.



Feature Name	Latitude/ Longitude (decimal degrees)	Type of Aquatic Resource	Cowardin Classification	Estimated Amount of Aquatic Resource in Review Area
Wetland 7	33.337144/ -79.52334	non section 10 - wetland	PFO	Area: 0 ac.
Wetland 8	33.336951/ -79.527038	non section 10 - wetland	PEM	Area: 0 ac.
Wetland 9	33.336978/ -79.529045	non section 10 - wetland	PFO	Area: 0 ac.
Wetland 10	33.335455/ -79.525193	non section 10 - wetland	PFO	Area: 0 ac.
Wetland 11	33.334746/ -79.526295	non section 10 - wetland	PFO	Area: 0 ac.
Wetland 12	33.334189/ -79.525796	non section 10 - wetland	PFO	Area: 0 ac.
Wetland 13	33.331351/ -79.526805	non section 10 - wetland	PFO	Area: 0 ac.
Wetland 14	33.329868/ -79.530634	non section 10 - wetland	PEM	Area: 2.44 ac.
Wetland 15	33.328895/ -79.527717	non section 10 - wetland	PFO	Area: 1.27 ac.
Wetland 16	33.328095/ -79.531049	non section 10 - wetland	PFO	Area: 0.87 ac.
Wetland 17	33.327438/ -79.5343	non section 10 - wetland	PFO	Area: 0.76 ac.
Wetland 18	33.330578/ -79.537083	non section 10 - wetland	PEM	Area: 43.15 ac.
Wetland 19	33.322144/ -79.545982	non section 10 - wetland	PFO	Area: 8.26 ac.
Wetland 20	33.327506/ -79.548882	non section 10 - wetland	PFO	Area: 1.71 ac.
Wetland 21	33.325290/ -79.55384	non section 10 - wetland	PFO	Area: 0.16 ac.
Wetland 22	33.323014/ -79.555049	non section 10 - wetland	PFO	Area: 1.55 ac.
Wetland 23	33.324534/ -79.556612	non section 10 - wetland	PEM	Area: 0.54 ac.
Wetland 24	33.326180/ -79.559246	non section 10 - wetland	PEM	Area: 0.33 ac.
Wetland 25	33.328364/ 	non section 10 -	PFO	Area: 0.37 ac.



Feature Name	Latitude/ Longitude (decimal degrees)	Type of Aquatic Resource	Cowardin Classification	Estimated Amount of Aquatic Resource in Review Area
	-79.557477	wetland		
Wetland 26	33.329350/ -79.557537	non section 10 - wetland	PFO	Area: 2.58 ac.
Wetland 27	33.328793/ -79.560667	non section 10 - wetland	PFO	Area: 0.58 ac.
Wetland 28	33.330157 -79.560916	non section 10 - wetland	PEM	Area: 2.20 ac.
Wetland 29	33.331952/ -79.551454	non section 10 - wetland	PEM	Area: 36.56 ac.
Wetland 30	33.328238/ -79.5662	non section 10 - wetland	PFO	Area: 36.16 ac.
Wetland 31	33.334380/ -79.557711	non section 10 - wetland	PEM	Area: 5.45 ac.
Wetland 32	33.338673/ -79.553035	non section 10 - wetland	PEM	Area: 7.91 ac.
Wetland 33	33.338642/ -79.548373	non section 10 - wetland	PEM	Area: 4.35 ac.
Wetland 34	33.339019/ -79.540381	non section 10 - wetland	PEM/PFO	Area: 0 ac.
Wetland 35	33.340351/ -79.537589	non section 10 - wetland	PEM	Area: 0 ac.
Wetland 36	33.345332/ -79.538974	non section 10 - wetland	PEM	Area: 0 ac.

### Threatened and Endangered Species

HDR submitted a threatened and endangered species consultation letter (Attachment D) to the United States Fish and Wildlife Service (USFWS) on December 8, 2021 to describe potential impacts to protected species likely to occur on or in the vicinity of the proposed project. Species addressed include those listed under the Endangered Species Act (ESA). HDR consulted the USFWS Information for Planning and Consultation (IPaC) database and the South Carolina Department of Natural Resources (SCDNR) database for lists of federally protected species with potential to occur within the Study Area and in Georgetown County, SC (Attachment D).

The site contains potential suitable habitat for the Northern Long Eared Bat (NLEB) and candidate-species monarch butterfly. Small pockets of summer roosting habitat for the NLEB and limited foraging habitat for the monarch butterfly occur in the Study Area. To the extent possible, the proposed project would minimize effects on NLEB by conducting the remaining tree clearing in mapped suitable roosting habitat during the inactive season (November 15<sup>th</sup> to



March 31<sup>st</sup>). The proposed project may affect but is not likely to adversely affect the NLEB and monarch butterfly.

The USFWS issued a response on December 9, 2021 agreeing with HDR's conclusion that the project would not result in a take of federally protected species. A copy of their response and recommendations are included in Attachment D.

A bald eagle has been identified flying over the proposed solar site; a nest has not been identified on the site or in proximity to the site. SRC will conduct a pre-construction survey for bald eagles and their nests prior to construction. If a nest is identified within 660-feet of the project site, HDR will notify USFWS and follow the USFWS's National Bald Eagle Management Guidelines.

### **Section 106 of the National Historic Preservation Act**

On May 7, 2021, HDR submitted a Section 106 Project Review Form and supplemental Project information to the State Historic Preservation Office (SHPO) at the South Carolina Department of Archives and History (SCDAH). The SHPO provided a response on June 22, 2021 and recommended a phased investigation of the project area's potential to contain historic properties, beginning with archival research and a reconnaissance-level survey. HDR conducted a cultural resources assessment of the project in accordance with SHPO's recommendations. On August 19, 2021, HDR conducted an archaeological reconnaissance survey of selected portions of the APE. A cultural resources assessment memorandum was submitted to SHPO on September 2, 2021.

The archaeological Area of Potential Effect (APE) is considered to be the limits of the SR Lambert Project. The cultural resources assessment includes background research and limited archaeological reconnaissance fieldwork. There are no standing structures on the Project and no survey-eligible structures are near the site, therefore, an architectural survey was not conducted, nor is one recommended.

HDR identified no archaeological resources during the archaeological reconnaissance of the Project. There are no previously recorded historic properties within the Project. There are no historic architectural resources within or near the Project. Most of the Project is covered in wetlands. Non-wetland areas are very flat, with no discernable topography. The entire Project has been intensively timbered numerous times and is currently covered in silviculture planted pines, many large areas of which have been timbered/clear cut within the past year. As a result of extensive silviculture, the soils at the Project are heavily disturbed. As such, there are no intact soils within the Project.

Based on historic map and aerial photograph research and archaeological reconnaissance investigations of areas considered to have a higher potential for archaeological resources, HDR considers the probability of this undertaking affecting any cultural resources, much less significant cultural resources, to be extremely low. HDR recommended that no additional cultural resources survey of the SR Lambert Project is necessary.





SCDAH responded in an informal consultation letter dated September 21, 2021, stating “If the SR Lambert Project were to require state permits or federal permits, licenses, funds, loans, grants, or assistance for development, we would recommend to the federal or state agency or agencies that additional cultural resources/historic property identification survey of the project area, as currently proposed, is not needed.” See Attachment D.

### **Essential Fish Habitat (EFH)**

As defined by the Magnuson-Stevens Fishery Conservation and Management Act (Magnuson-Stevens Act) of 1976, as amended in 1996, Essential Fish Habitat (EFH) is defined as those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity (16 USC 1802, 50 CFR §600.10). No EFH is present within the project area.

### **401 Water Quality**

SCDHEC has issued a Section 401 Water Quality Certification for Nationwide Permit 51 with a condition that the proposed project does not “cause the loss of more than 300 linear feet of stream bed.” The proposed Lambert I Solar project meets this condition. The project has been designed and will be constructed to ensure that existing water quality classifications and standards are maintained through the use of various stormwater control Best Management Practices (BMPs). The proposed impacts would occur in the Carolina Coastal-Sampit (Hydrologic Unit Code [HUC] 03040207) watershed.

The National Pollutant Discharge Elimination System (NPDES) permit program regulates point source pollution by considering stormwater discharges, non-point sources, and natural background sources. Construction activities associated with the project will also require SCDHEC approval under the SC Pollution Control Act and the provisions of the Clean Water Act. Specifically, the project will be developed in compliance with the *SC NPDES General Permit for Stormwater Discharges from Construction Activities*. Best management practices (BMPs) will be followed to minimize sedimentation. Conceptual design includes temporary sediment basins within the footprint of the project site. The final design of the proposed project would take into consideration the increase in the amount of stormwater during the stormwater modeling process.

### **Floodplains**

No FEMA floodplains were depicted for Project Area. The Project Area is in Zone X. Zone X is an area determined to be outside of the 500-year flood plain (FEMA FIRM Panel 350 of 490, Community Panel 4500850350E) (Attachment A, Figure 5).

### **Anticipated Impacts to Wetlands and Waters of the US**

Wetlands have been managed in timber production for over fifty years and are currently undergoing active silviculture management or have been recently cleared. Wetland hydrology, soils, and vegetation are altered and have very impaired functions. The project is expected to result in approximately 0.165 acres of permanent wetland impact associated with the construction of the solar arrays.



Most of the streams (non-wetland waters) identified onsite have been channelized. Two permanent impacts to non-wetland waters are anticipated to replace and improve existing culverts, resulting in 69 linear feet of impact. The culvert on Stream (Non-Wetland Water) 3 is currently damaged and will be replaced and extended for the access road. The culvert on Stream (Non-Wetland Water) 5 will be replaced and extended for an access road to the Santee Cooper switching station and Silicon Ranch substation.

### 33. Overall Project Purpose and the Basic Purpose of Each Activity In or Affecting U.S. Waters

The overall purpose of the project is to develop solar energy resources in support of Santee Cooper's 2020 Integrated Resource Plan (IRP), which includes an initial goal for 500 MW of solar capacity, and an additional 1,000 MW of solar resources to be secured between 2023 and 2032. Solar facilities would be located near Santee Cooper's primary load centers near the coast but would be geographically dispersed to achieve production diversity while maintaining significant economies of scale. Santee Cooper secures solar energy through the development of Power Purchase Agreements (PPA) with solar developers.

On October 15, 2019, Santee Cooper issued a Request for Information (RFI) from potential solar resource developers, and on June 5, 2020, Santee Cooper issued a Request for Proposals for Solar Power. Silicon Ranch Corporation selected to build, own, and operate two projects (Lambert I and Lambert II) in Georgetown County totaling 200 MW.

### 36. Individually list wetland impacts including mechanized clearing, fill, excavation, flooding, draining, shading, etc. and attach a site map with location of each impact

The following table provides a summary of permanent impacts associated with culvert replacements and improvements and construction of the proposed solar arrays.

Table 2. Wetland Impact Table

Figure Number	Wetland Number	Wetland Type	Distance to Receiving Water Body (LF)	Purpose of Impact	Impact Size (Acres)
Figure 7, Page 1	31	PFO4f	300'	Permanent Fill; Solar Array Impact	0.03
Figure 7, Page 1	31	PFO4f	300'	Permanent Fill; Solar Array Impact	0.02
Figure 7, Page 2	18	PFO4f	>1000'	Permanent Fill; Solar Array Impact	0.02
Figure 7, Page 2	18	PFO4f	>1000'	Permanent Fill; Solar Array Impact	0.005





Figure 7, Page 3	18	PFO4f	>1000'	Permanent Fill; Solar Array Impact	0.04
Figure 7, Page 3	18	PFO4f	>1000'	Permanent Fill; Solar Array Impact	0.04
Figure 7, Page 3	18	PFO4f	>1000'	Permanent Fill; Solar Array Impact	0.01
				<b>Total Permanent Fill</b>	<b>0.165</b>
Figure Number	Stream Number	Flow Type	Average Stream Width (LF)	Impact Type	Impact Length (LF) and Area (AC)
Figure 7 Page 1	Non-Wetland Water (Stream) 5	Perennial	10'	Permanent Impact (Culvert)	50 LF (0.01 AC)
Figure 7, Page 2	Non-Wetland Water (Stream) 3	Perennial	5'	Permanent Impact (Culvert)	19 LF (0.004 AC)
				<b>Total Permanent Stream Impact</b>	<b>69 LF (0.014 AC)</b>
				<b>Total Permanent Impact (Stream and Wetland)</b>	<b>0.179</b>

### 39. Describe measures taken to avoid and minimize impacts to Waters of the United States

Silicon Ranch initially submitted a permit application in December 2021 for a proposed design that resulted in 123 acres of impacts to wetlands through either permanent fill for access roads or clearing and grubbing. Silicon Ranch Corporation considered comments received in response to the public notice and revised the design to avoid most impacts to wetlands and waters of the U.S. The ground coverage ratio was increased from 40% to 45%, which means the rows of panels are spaced closer together. Using this increased ratio allows Silicon Ranch Corporation to meet the power generation requirements of their power purchase agreements with Santee Cooper in the upland portions of the site, with minimal impacts associated with solar panel construction and culvert replacements and improvements. Based on the current design, mechanical clearing and grubbing is no longer proposed within wetlands. No grading in wetlands is proposed. Solar panels will no longer be placed over wetlands and would not result in shading impacts.



#### **40. Provide a brief description of the proposed mitigation plan to compensate for impacts to aquatic resources or provide justification as to why mitigation should not be required**

SRC has developed a compensatory mitigation plan for anticipated unavoidable impacts to wetlands and waters of the U.S. from the proposed SR Lambert I and II solar project. The mitigation plan has been developed in accordance with the 2008 USACE Mitigation Rule (33 CFR §332.3) and the USACE Charleston District *Guidelines for Compensatory Mitigation*. The proposed impacts would occur in the Carolina Coastal-Sampit (Hydrologic Unit Code [HUC] 03040207) watershed. SRC proposes to purchase available compensatory mitigation credits from an approved wetland and stream mitigation bank to offset unavoidable permanent impacts to wetlands and waters of the U.S. The project is anticipated to require approximately 1,419 freshwater wetland credits and 145 freshwater stream credits. Mitigation credit worksheets and low-gradient stream assessment forms are included in Attachment C.



# NWP General and Regional Conditions

## 2021 Nationwide Permit General Conditions

1	Navigation	No effect
2	Aquatic Life Movements	Aquatic life movement is limited in non-wetland waters that are channelized and low flow. Flow will be maintained during the project and all efforts will be made to minimize impacts to aquatic life. Appropriately-sized culverts will be used on non-wetland water crossings.
3	Spawning Areas	No effect
4	Migratory Bird Breeding Areas	No effect
5	Shellfish Beds	No effect
6	Suitable Material	Material used for construction will be appropriate for their applications and will be considered suitable material.
7	Water Supply Intakes	The project is not near any water supply intakes.
8	Adverse Effects from Impoundments	No effect
9	Management of Water Flows	A hydrology report has been prepared for the project. Most of the existing onsite ditch network will remain intact. Pre-construction capacity of water flows and stormwater management would be maintained.
10	Fills Within 100-Year Floodplains	No fills are proposed in 100-year floodplains
11	Equipment	If required, heavy equipment working in wetlands will be placed on mats, or other measures must be taken to minimize soil disturbance.
12	Soil Erosion and Sediment Controls	Soil and erosion plans will be put in place to protect waters of the U.S. from sedimentation. SRC will apply for and obtain National Pollutant Discharge Elimination System (NPDES) permits prior to commencing work.
13	Removal of Temporary Structures and Fills	Temporary fills are not expected in this project.
14	Proper Maintenance	The site structures will be properly maintained in accordance with applicable NWP conditions.
15	Single and Complete Project	The proposed project, Lambert I, is associated with SR Lambert I, LLC and a separate power purchase agreement with Santee Cooper.



16	Wild and Scenic Rivers	No effect
17	Tribal Rights	The project is not located on tribal land or in proximity to protected tribal resources.
18	Endangered Species	Section 7 consultation with U.S. Fish and Wildlife Service (USFWS) has been completed. See concurrence in Appendix D. To the extent possible, the proposed project would minimize effects on NLEB by conducting the remaining tree clearing in mapped suitable roosting habitat during the inactive season (November 15th to March 31st).
19	Migratory Birds and Bald and Golden Eagles	Potential impacts to migratory birds would be minimized by conducting tree clearing between November 15th to March 31st. SRC will conduct a pre-construction survey for bald eagles and their nests prior to construction. If a nest is identified within 660-feet of the project site, HDR will notify USFWS and follow the USFWS's National Bald Eagle Management Guidelines.
20	Historic Properties	Attachment D includes correspondence from SCDAH. Impacts to historic properties are not anticipated as a result of the proposed project.
21	Discovery of Previously Unknown Remains and Artifacts	SRC and their contractors will adhere to this condition and immediately notify the USACE District Engineer if previously unknown historic, cultural or archeological remains and artifacts are discovered during construction. SRC to the maximum extent practicable, will avoid construction activities that may affect the remains and artifacts until the required coordination has been completed.
22	Designated Critical Resource Waters	No effect
23	Mitigation	SRC will obtain credits from an available wetland and/or stream mitigation bank that services the project area. Compensatory mitigation worksheets are in Attachment C.
24	Safety of Impoundment Structures	Not applicable
25	Water Quality	SCDHEC has issued a water quality certification for Nationwide Permit 51 with conditions. The proposed project meets these conditions.
26	Coastal Zone Management	This project is located in Georgetown County, which is one of the eight coastal counties regulated under the South Carolina Coastal Zone Management Act. The applicant is applying for an Individual Coastal Zone Consistency for Nationwide Permit 51 from SCDHEC-OCRM.
27	Regional and Case-by-Case Conditions	This activity meets the Regional Conditions for South Carolina as listed below.



28	Use of Multiple Nationwide Permits	Use of multiple nationwide permits is not anticipated.
29	Transfer of Nationwide Permit Verifications	While not expected, SRC would adhere to this condition if the property is sold.
30	Compliance Certification	A signed certification documenting completion of the authorized activity will be provided to USACE.
31	Activities Affecting Structures or Works Built by the United States	Not applicable

## Final Regional Conditions for the 2021 Nationwide Permits in Charleston District<sup>2</sup>

### For All Nationwide Permits

1. Use of nationwide permits does not preclude requirements to obtain all other applicable Federal, State, county, and local government authorizations.
2. NWP activities are not authorized in areas known or suspected to have sediment contamination, with the exception of the following: (1) activities authorized by NWP 38; (2) activities authorized by NWP 53 when used in combination with NWP 38; (3) sediment sampling for dredging projects authorized by NWP 6; and (4) activities authorized by NWP 20.

*Not applicable to proposed project.*

3. For all proposed activities, both temporary and permanent, that would be located within a FEMA designated floodway, the prospective permittee must submit a PCN to the District Engineer in accordance with General Condition 32.

*Not applicable to proposed project.*

4. For all NWPs, the prospective permittee must submit a PCN to the District Engineer in accordance with General Conditions 31 and 32, for any activity that would be located in or adjacent to an authorized USACE Civil Works project, including Federal Navigation projects.

*Not applicable to proposed project.*

5. For all proposed activities that would be located in or adjacent to an authorized Federal Navigation project, as referenced in Regional Condition C.4.b, the project drawings must include the following information: (1) State Plane Coordinates (NAD 1983) for a minimum of two corners of each structure or fill where it is closest to the Federal channel; (2) the distance from the

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<sup>2</sup> [Department of the Army Letterhead](#)



watermost edge of the proposed structure or fill to the nearest edge of the Federal channel; and  
(3) Mean Low Water line and the Mean High Water line.

*Not applicable to proposed project.*

6. For all NWPs requiring a PCN and when the activity involves the discharge of dredged or fill material into waters of the U.S. associated with mechanized land clearing that results in the permanent conversion of forested or scrub-shrub wetlands to herbaceous wetlands, the PCN should include the following information: (1) a written description and/or drawings of the proposed conversion activity and (2) acreage of the permanent conversion.

*Permanent conversion of wetlands to herbaceous wetlands is not proposed.*

## **Regional Conditions Applicable to Specific NWPs**

**For NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, 52, 57 and 58 in accordance with General Condition 22(a) and for NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, 38 and 54, in accordance with General Condition 22(b), the ACE Basin National Estuarine Research Reserve and the North Inlet Winyah Bay National Estuarine Research Reserve are Designated Critical Resource Waters. Activities described in the NWPs listed herein are subject to the limitations and/or PCN requirements listed in General Condition 22 (a) and (b).**

Not applicable to proposed project.

**For NWPs 12, 14, 29, 39, 46, 51, 52, 57 and 58 activities that involve crossings, all culverts must be adequately sized to maintain flow. For these activities that require submittal of a PCN, the PCN should include the minimum size of and number of culvert/pipes that are proposed.**

Size of pipes/culverts will be determined by Silicon Ranch's EPC contractor for any crossings of non-wetland waters.

**For NWPs 12, 14, 18, 43, 51, 57 and 58, the prospective permittee must submit a PCN to the District Engineer in accordance with General Condition #32, for activities that involve the loss of greater than 0.005 acre of stream bed.**

A PCN is enclosed.

**For NWPs 12, 14, 18, 21, 29, 39, 40, 42, 43, 44, 50, 51, 52, 57, 58 and 59, activities that involve the loss of greater than 0.005 acre of stream bed, compensatory mitigation will be required and the PCN should include a compensatory mitigation plan.**

A PCN is enclosed and includes compensatory mitigation.

**For NWPs 12, 14, 18, 21, 27, 29, 39, 40, 42, 43, 44, 50, 51, 52, 57, 58, and 59, the discharge cannot cause the loss of greater than 0.05 acre of stream bed.**

The proposed project meets this condition. A discharge of 0.014 acre of non-wetland waters is anticipated for access road crossings or culvert improvements.

<b>Joint Federal and State Application Form For Activities Affecting Waters of the United States Or Critical Areas of the State of South Carolina</b>		<b>This Space for Official Use Only</b> Application No. _____ Date Received _____ Project Manager _____ Watershed # _____	
<p><i>Authorities:</i> 33 USC 401, 33 USC 403, 33 USC 407, 33 USC 408, 33 USC 1341, 33 USC 1344, 33 USC 1413 and Section 48-39-10 et. Seq of the South Carolina Code of Laws. These laws require permits for activities in, or affecting, navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters. The Corps of Engineers and the State of South Carolina have established a joint application process for activities requiring both Federal and State review or approval. Under this joint process, you may use this form, together with the required drawings and supporting information, to apply for both the Federal and/or State permit(s).</p> <p><i>Drawings and Supplemental Information Requirements:</i> In addition to the information on this form, you must submit a set of drawings and, in some cases, additional information. A completed application form together with all required drawings and supplemental information is required before an application can be considered complete. See the attached instruction sheets for details regarding these requirements. You may attach additional sheets if necessary to provide complete information.</p>			
1. Applicant Last Name:		11. Agent Last Name (agent is not required):	
2. Applicant First Name:		12. Agent First Name:	
3. Applicant Company Name:		13. Agent Company Name:	
4. Applicant Mailing Address:		14. Agent Mailing Address:	
5. Applicant City:		15. Agent City:	
6. Applicant State:	7. Applicant Zip:	16. Agent State:	17. Agent Zip:
8. Applicant Area Code and Phone No.:		18. Agent Area Code and Phone No.:	
9. Applicant Fax No.:		19. Agent Fax No.:	
10. Applicant E-mail:		20. Agent E-mail:	
21. Project Name:		22. Project Street Address:	
23. Project City:	24. Project County:	25. Project Zip Code:	26. Nearest Waterbody:
27. Tax Parcel ID:		28. Property Size (acres):	
29. Latitude:		30. Longitude:	
31. Directions to Project Site (Include Street Numbers, Street Names, and Landmarks and attach additional sheet if necessary):			
32. Description of the Overall Project and of Each Activity in or Affecting U.S. Waters or State Critical Areas (attach additional sheets if needed)			
33. Overall Project Purpose and the Basic Purpose of Each Activity In or Affecting U.S. Waters (attach additional sheets if needed):			
34. Type and quantity of Materials to Be Discharged  Dirt or Topsoil: _____ <input type="checkbox"/> cubic yards Clean Sand: _____ <input type="checkbox"/> cubic yards Mud: _____ <input type="checkbox"/> cubic yards Clay: _____ <input type="checkbox"/> cubic yards Gravel, Rock, or Stone: _____ <input type="checkbox"/> cubic yards Concrete: _____ <input type="checkbox"/> cubic yards Other (describe): _____ <input type="checkbox"/> cubic yards  TOTAL: _____ cubic yards		35. Type and Quantity of Impacts to U.S. Waters (including wetlands).  Filling: _____ <input type="checkbox"/> acres <input type="checkbox"/> sq.ft. _____ <input type="checkbox"/> cubic yards Backfill & Bedding: _____ <input type="checkbox"/> acres <input type="checkbox"/> sq.ft. _____ <input type="checkbox"/> cubic yards Landclearing: _____ <input type="checkbox"/> acres <input type="checkbox"/> sq.ft. _____ <input type="checkbox"/> cubic yards Dredging: _____ <input type="checkbox"/> acres <input type="checkbox"/> sq.ft. _____ <input type="checkbox"/> cubic yards Flooding: _____ <input type="checkbox"/> acres <input type="checkbox"/> sq.ft. _____ <input type="checkbox"/> cubic yards Draining/Excavation: _____ <input type="checkbox"/> acres <input type="checkbox"/> sq.ft. _____ <input type="checkbox"/> cubic yards Shading: _____ <input type="checkbox"/> acres <input type="checkbox"/> sq.ft. _____ <input type="checkbox"/> cubic yards  TOTALS: _____ acres _____ sq.ft. _____ cubic yards	

Estimated based on 0.179 acres of impact and 2' of fill and backfill.

36. Individually list wetland impacts including mechanized clearing, fill, excavation, flooding, draining, shading, etc. and attach a site map with location of each impact (attach additional sheets if needed).

Impact No.	Wetland Type	Distance to Receiving Water body (LF)	Purpose of Impact (road crossing, impoundment, flooding, etc)	Impact Size (acres)
Total Wetland Impacts (acres)				

37. Individually list all seasonal and perennial stream impacts and attach a site map with location of each impact (attach additional sheets )

Impact No.	Seasonal or Perennial Flow	Average Stream Width (LF)	Impact Type (road crossing, impoundment, flooding, etc)	Impact Length (LF)
Total Stream Impacts (Linear Feet)				

38. Have you commenced work on the project site? ☐ YES ☐ NO If yes, describe all work that has occurred and provide dates.

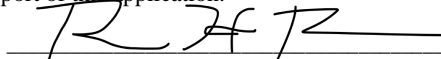
39. Describe measures taken to avoid and minimize impacts to Waters of the United States:

40. Provide a brief description of the proposed mitigation plan to compensate for impacts to aquatic resources or provide justification as to why mitigation should not be required (Attach a copy of the proposed mitigation plan for review).


41. See the attached sheet to list the names and addresses of adjacent property owners.


42. List all Corps Permit Authorizations and other Federal , State, or Local Certifications, Approvals, Denials received for work described in this application.

43. Authorization of Agent. I hereby authorize the agent whose name is given on page one of this application to act in my behalf in the processing of this application and to furnish supplemental information in support of this application.<sup>1</sup>

  
Applicant's Signature Date

44. Certification. Application is hereby made for a permit or permits to authorize the work and uses of the work as described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the person who desires to undertake the proposed activity.

  
Applicant's Signature Date

  
Agent's Signature Date

<sup>1</sup>The application must be signed by the person who desires to undertake the proposed activity or it may be signed by a duly authorized agent if the authorization statement in blocks 11 and 43 have been completed and signed. 18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.



NOTE: A depiction of the adjacent properties with identifying corresponding property owner names must accompany this mailing list.  
(Attach additional sheets if necessary)

Project Name: \_\_\_\_\_

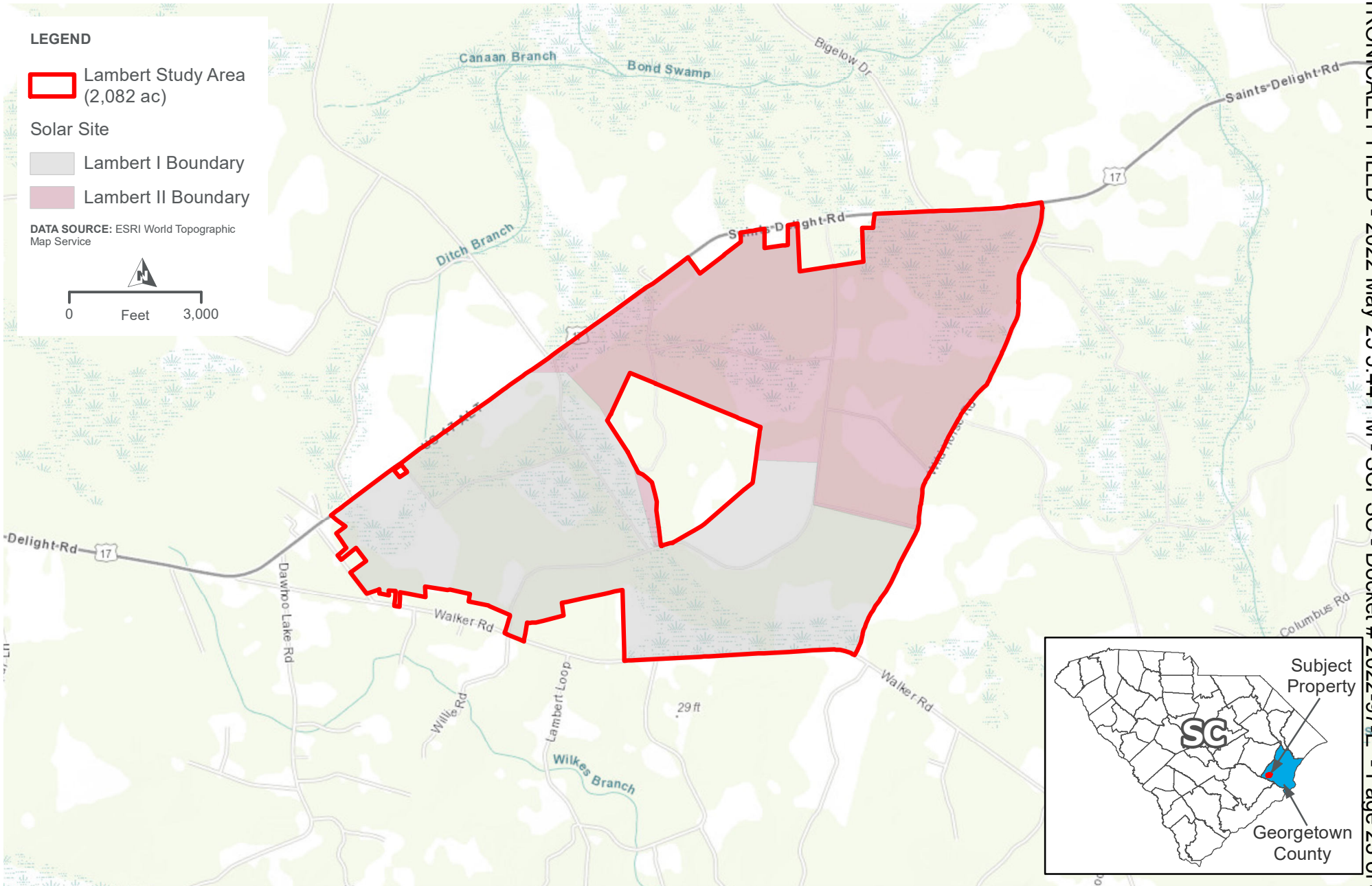
[illegible]



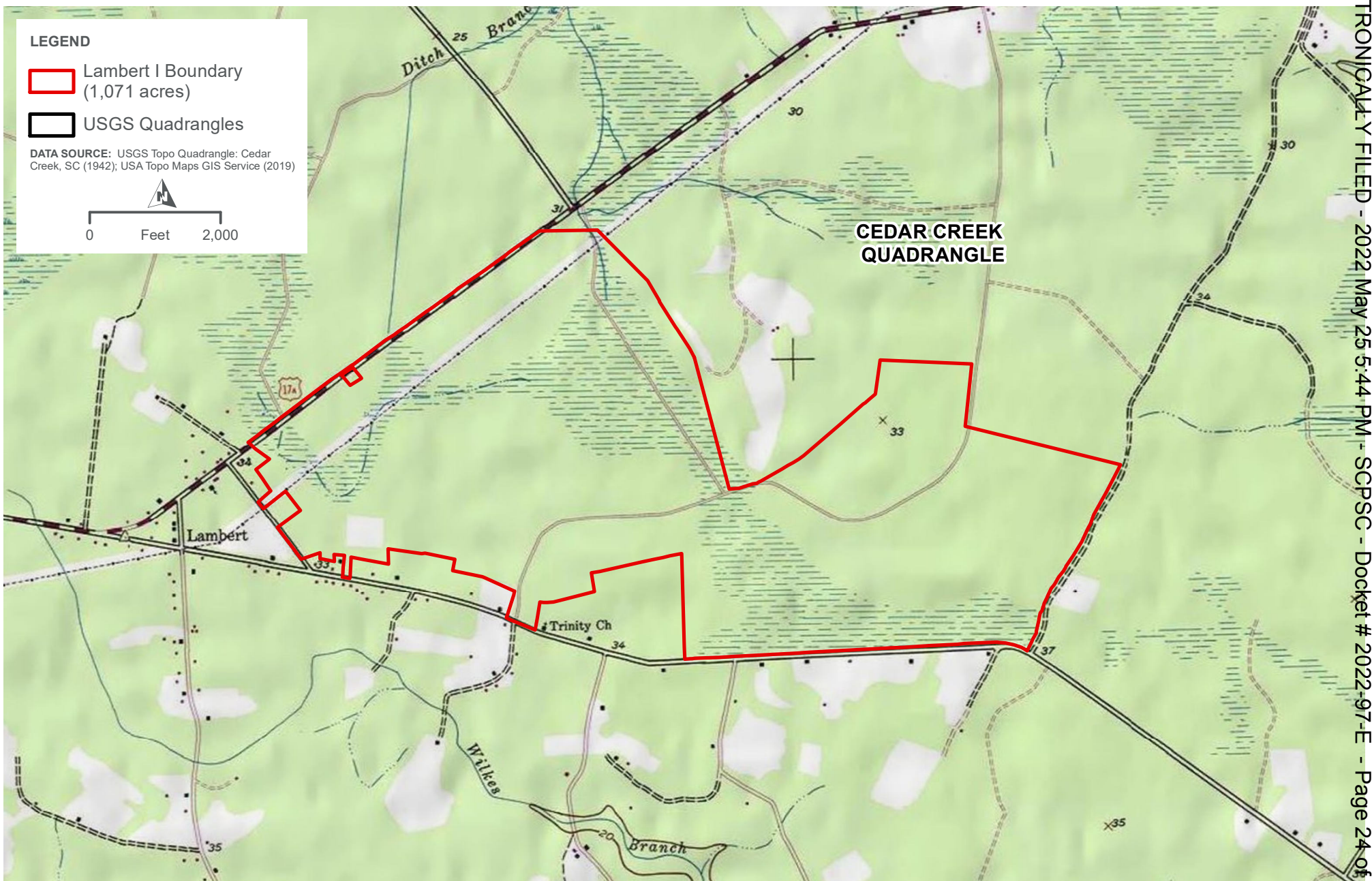
# Attachment A

## Figures and Permit Drawings









**SR LAMBERT**  
**USGS TOPOGRAPHIC QUADRANGLES**

**FIGURE 2**





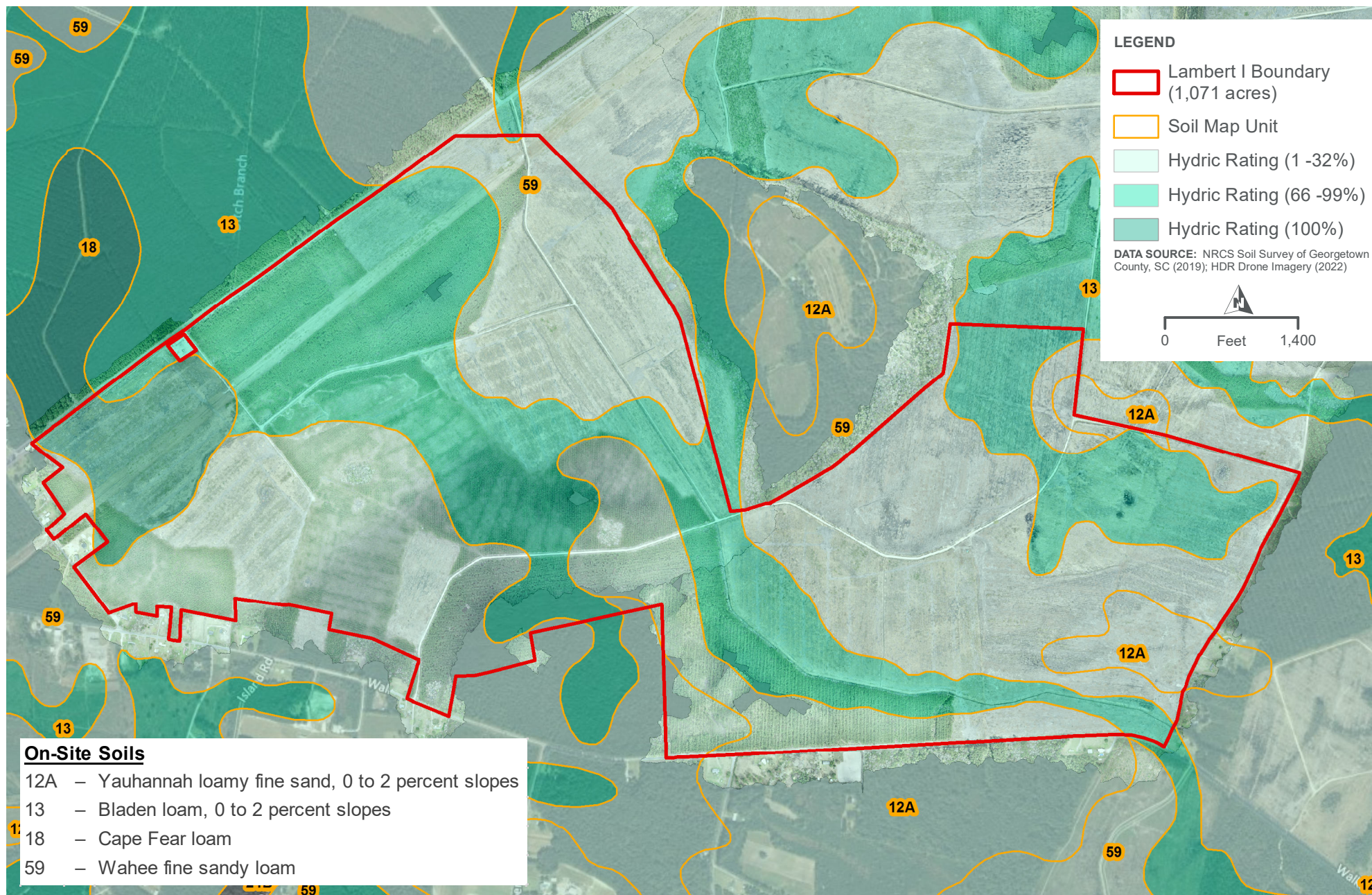
bing



SR LAMBERT  
AERIAL IMAGERY

FIGURE 3





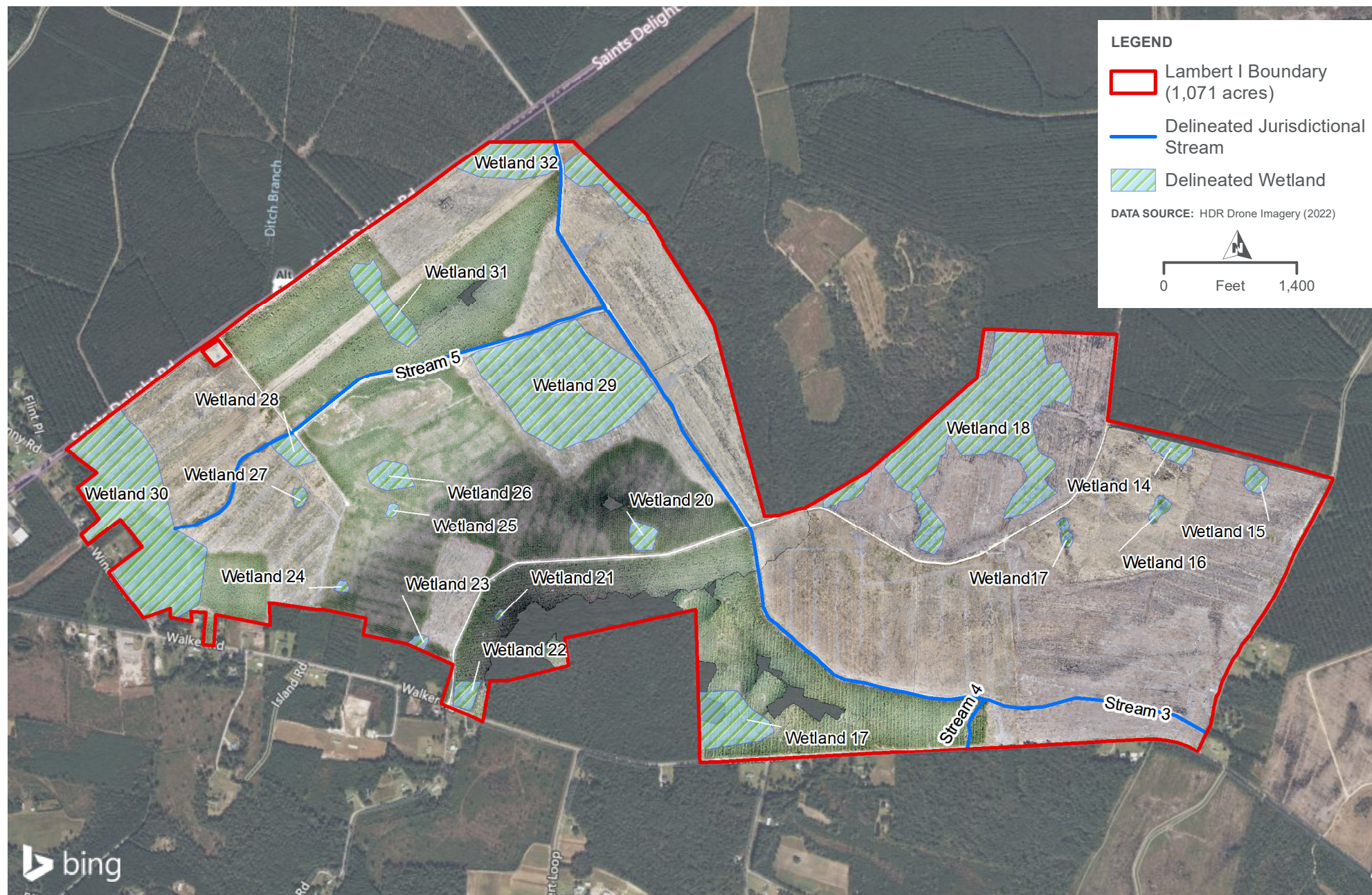




**SR LAMBERT**  
**NHD, NWI, AND FEMA FLOODPLAINS**

**FIGURE 5**

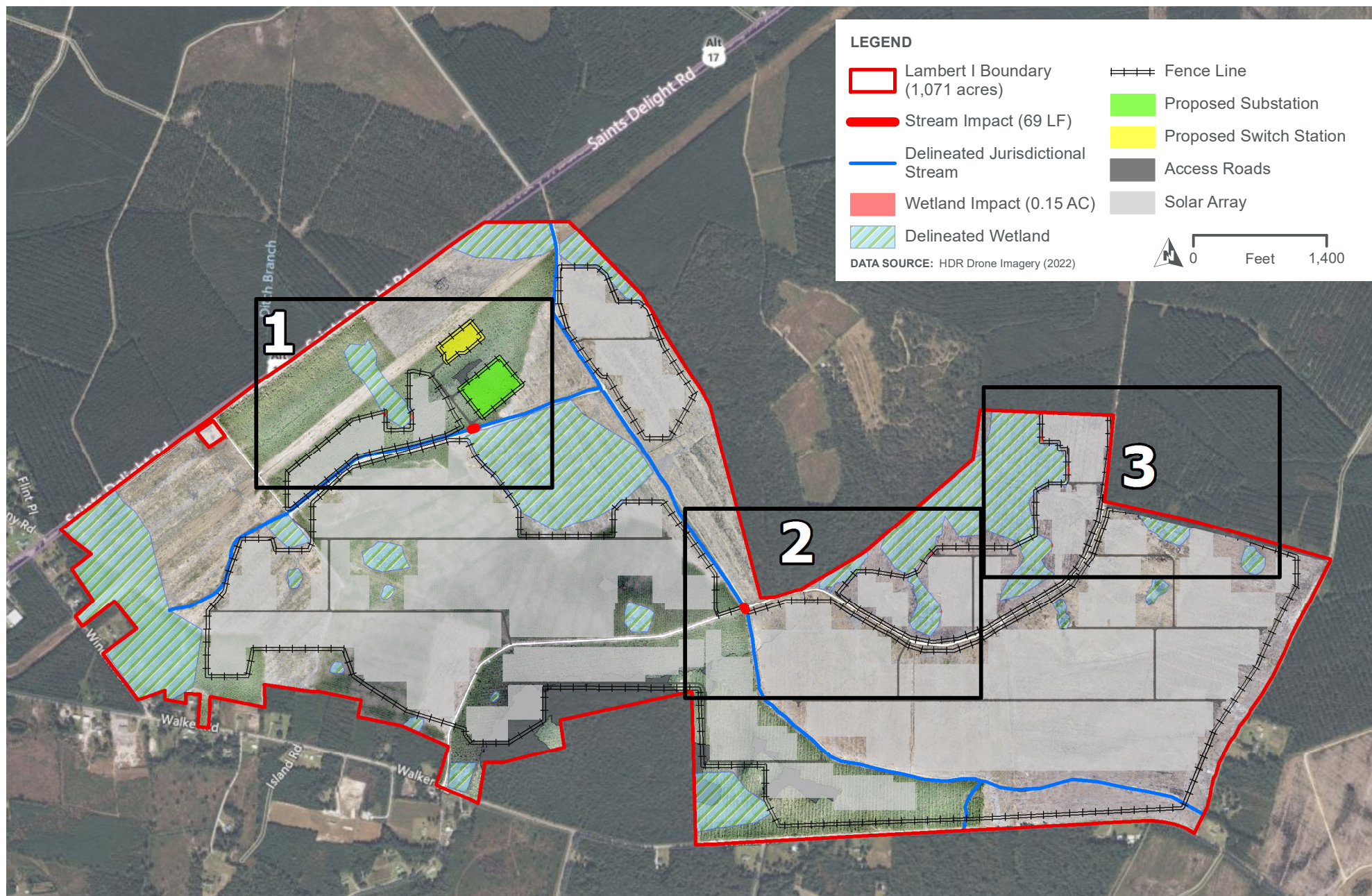




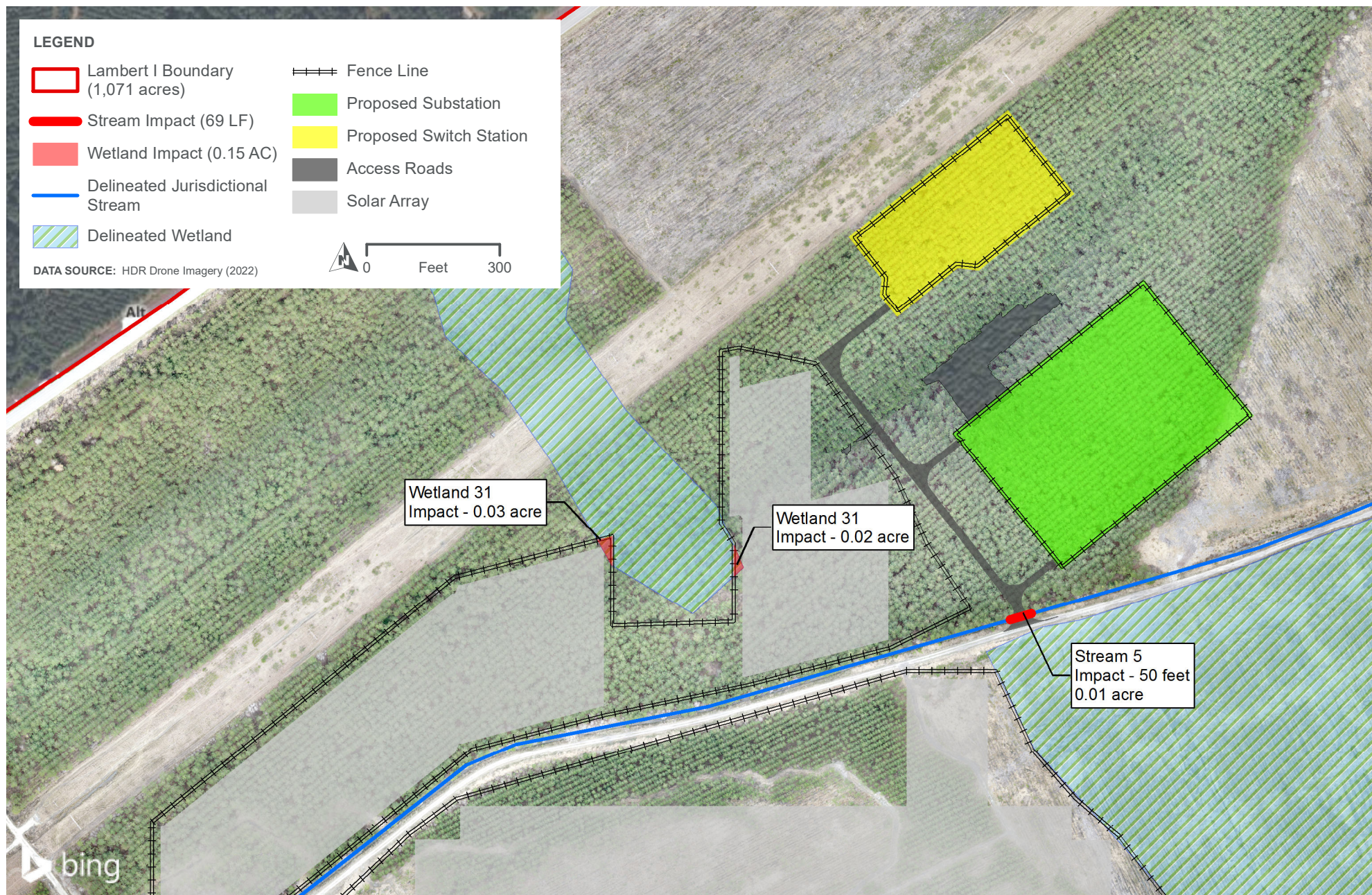
**SR LAMBERT  
DELINEATED FEATURES**

**FIGURE 6**

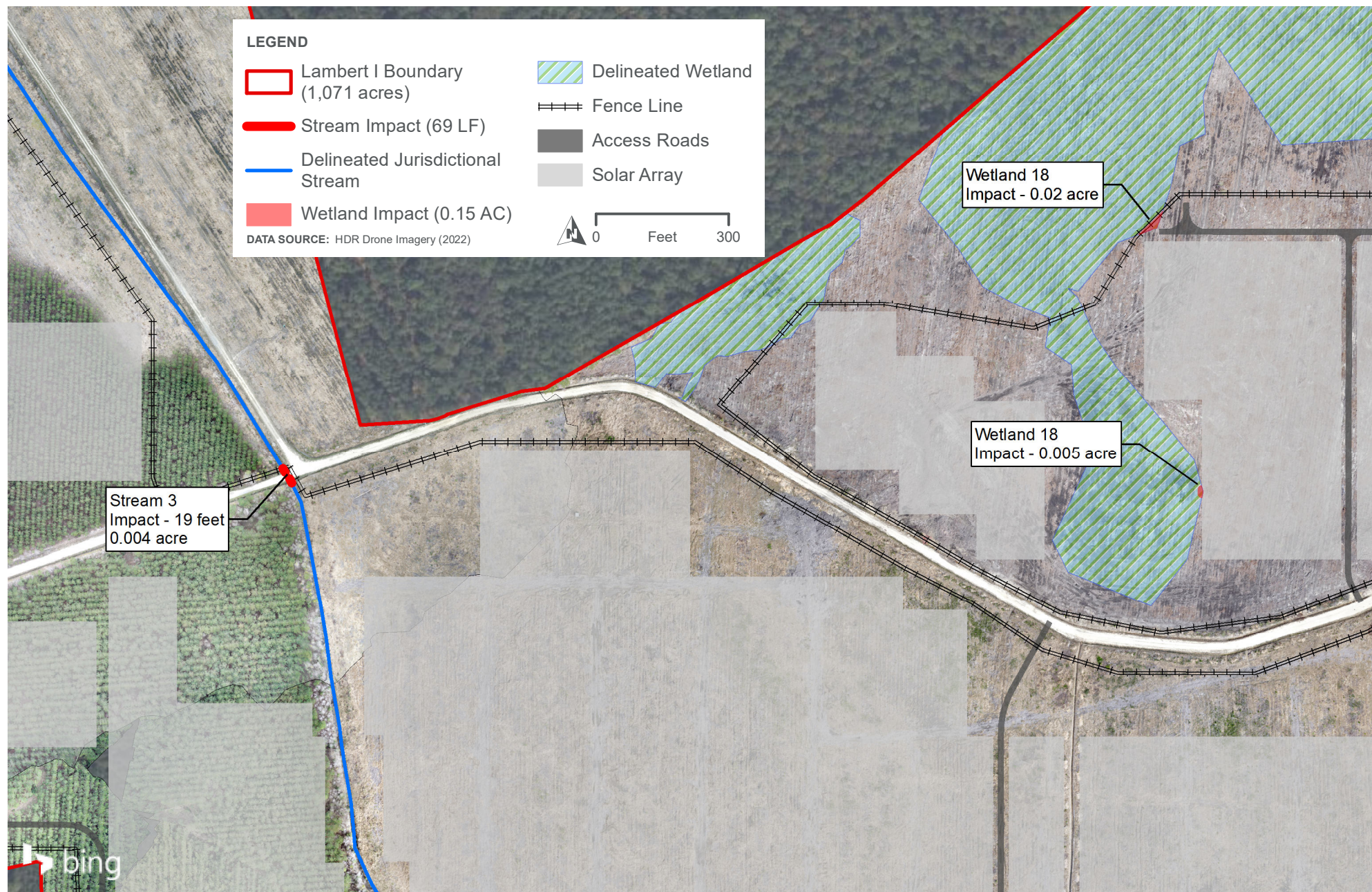




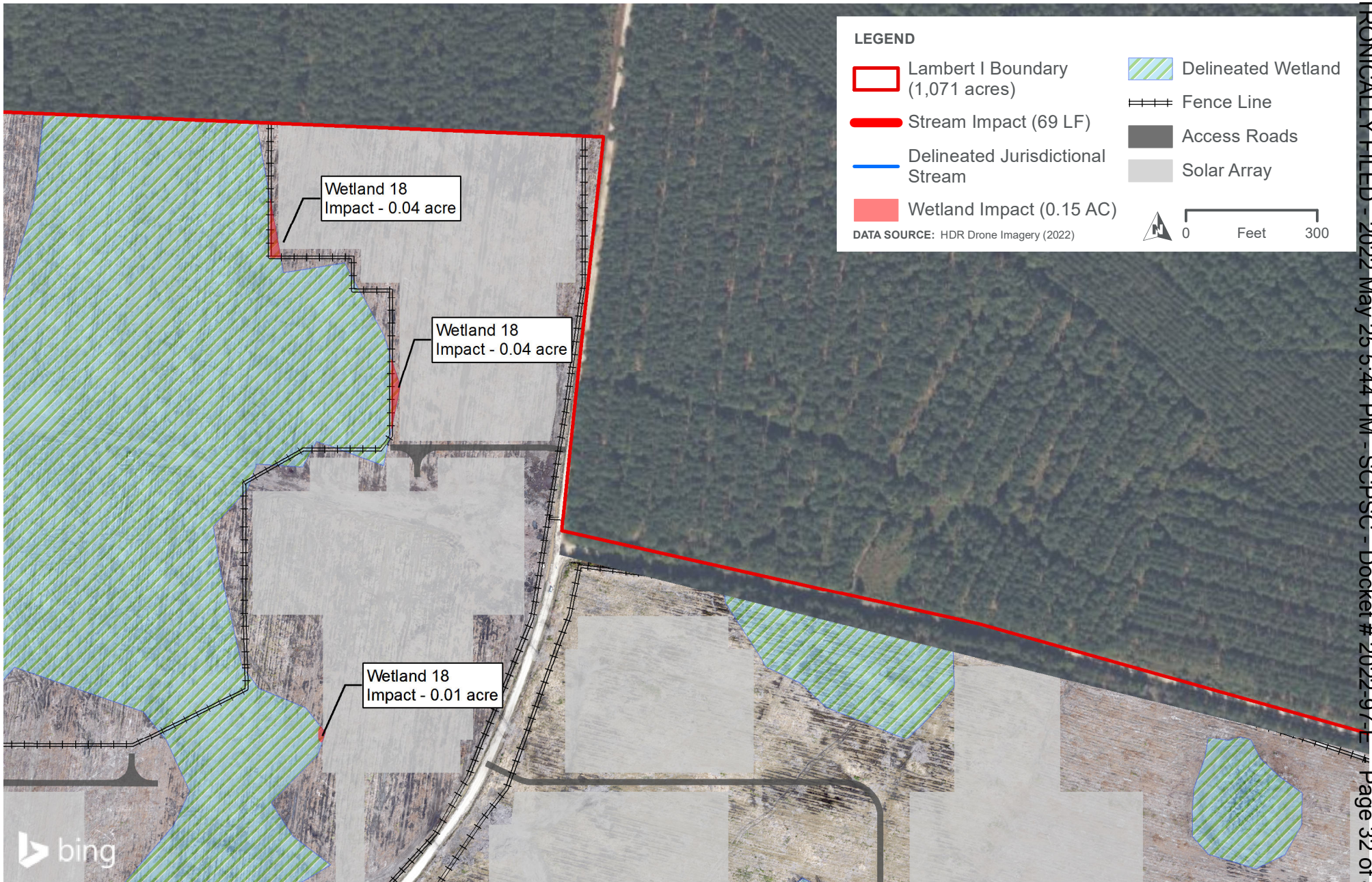












# Attachment B

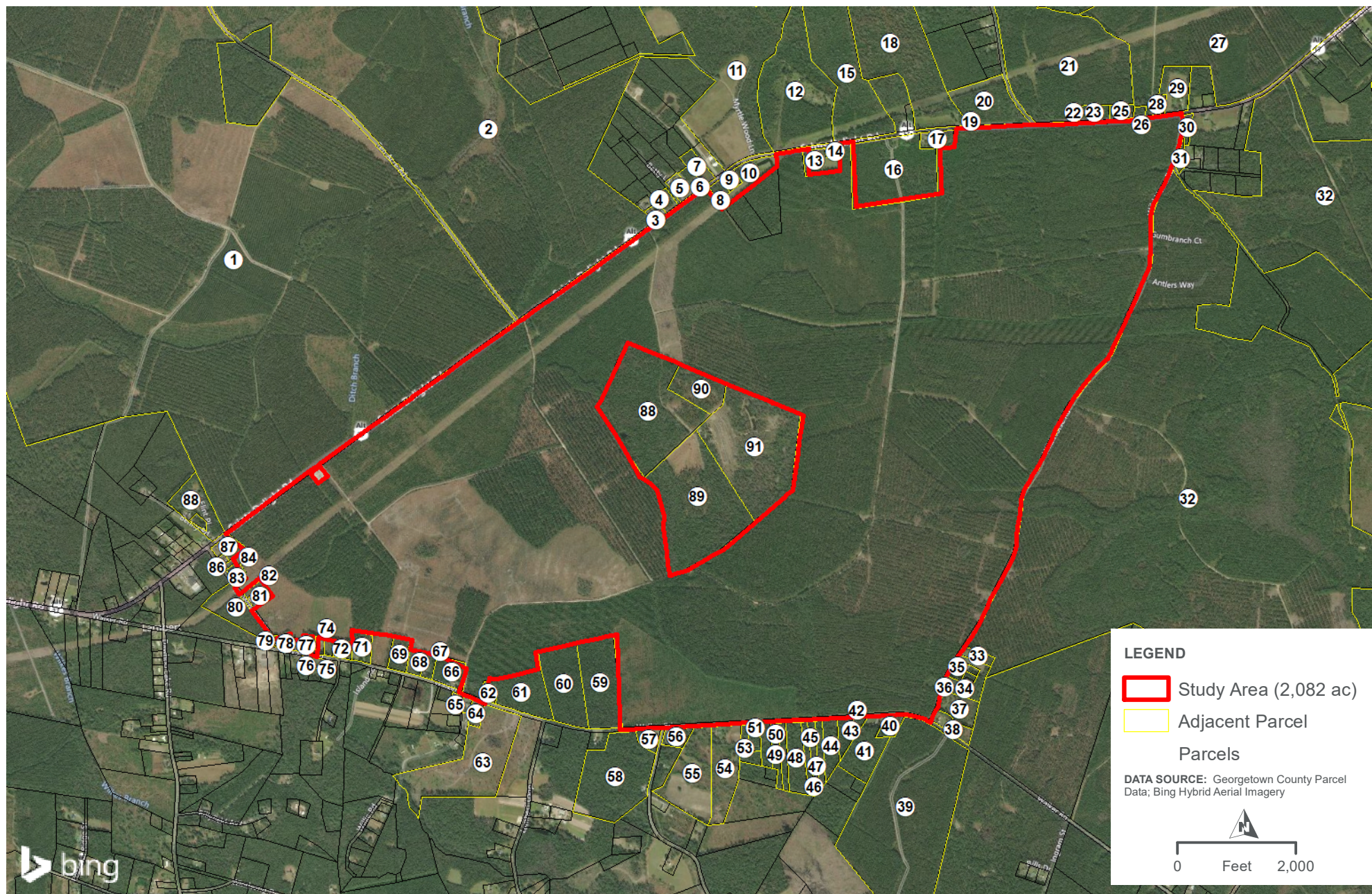
Adjacent Property Owners



Map_No	TMS	ParcelID	StreetNumb	StreetName	Owner1	Owner2	BillingAdd	BillingA_1	City	State	ZipCode	LandUseCod
1	01-0442-026-11-00	01-0442-026-11-00		UNKNOWN	JAMESTOWN TIMBER 1, LP		C/O PROPERTY TAX ADMIN	P O BOX 3349	ALBANY	GA	31706-3349	Q302
2	01-0442-026-11-00	01-0442-026-11-00		UNKNOWN	JAMESTOWN TIMBER 1, LP		C/O PROPERTY TAX ADMIN	P O BOX 3349	ALBANY	GA	31706-3349	Q302
3	01-0423-003-00-00	01-0423-003-00-00	6388	ST DELIGHT RD	NEWTON BERTIE M LIFE ESTATE		6388 SAINT DELIGHT RD		GEORGETOWN	SC	29440	Q200
4	01-0423-004-00-00	01-0423-004-00-00	6322	ST DELIGHT RD	EVANS MICHAEL THOMAS		1951 GEORGETOWN HIGHWAY		GEORGETOWN	SC	29440	N200
5	01-0423-023-03-00	01-0423-023-03-00	6278	ST DELIGHT RD	BLAKE BONNIE M		1012 OAKLEY ST		GEORGETOWN	SC	29440	N200
6	01-0423-005-00-00	01-0423-005-00-00	6222	ST DELIGHT RD	SOBIESK ERIC J		6222 SAINT DELIGHT ROAD		GEORGETOWN	SC	29440	N065
7	01-0424-001-01-00	01-0424-001-01-00	6117	ST DELIGHT RD	BLAKE THOMAS PHILLIP		425 PRESS LINDLER RD		COLUMBIA	SC	29212	Q202
8	01-0424-001-02-00	01-0424-001-02-00		ST DELIGHT RD	CUSTER EMERY C		623 1ST AVENUE NORTH		SURFSIDE BEACH	SC	29575	N000
9	01-0424-001-02-01	01-0424-001-02-01	6141	ST DELIGHT RD	KELLAHAN KEVIN HEYWARD		6141 ST DELIGHT ROAD		GEORGETOWN	SC	29440	Q165
10	01-0424-001-00-00	01-0424-001-00-00	6061	ST DELIGHT RD	BLAKE DONNIE E		6061 SAINTS DELIGHT RD		GEORGETOWN	SC	29440	Q100
11	01-0424-001-00-00	01-0424-001-00-00	6061	ST DELIGHT RD	BLAKE DONNIE E		6061 SAINTS DELIGHT RD		GEORGETOWN	SC	29440	Q100
12	01-0424-002-05-00	01-0424-002-05-00	5812	ST DELIGHT RD	NELSON WILLIAM L	NELSON BARBARA S	5812 SAINTS DELIGHT RD		GEORGETOWN	SC	29440	N300
13	01-0424-009-00-00	01-0424-009-00-00	5760	ST DELIGHT RD	PINSON JOSEPH HARRISON		5793 SAINTS DELIGHT RD		GEORGETOWN	SC	29440	N200
14	01-0424-010-00-00	01-0424-010-00-00	5793	ST DELIGHT RD	PINSON JOSEPH HARRISON		5793 SAINTS DELIGHT RD		GEORGETOWN	SC	29440	N200
15	01-0424-002-06-00	01-0424-002-06-00	5609	ST DELIGHT RD	TRIANA DAVID A	TRIANA KRISTIN M	153 WILDBERRY LANE		GOOSE CREEK	SC	29445	Q302
16	01-0442-026-08-00	01-0442-026-08-00		SAINT DELIGHTS RD	WEYERHAEUSER NR COMPANY		ATTN: TAX DEPARTMENT	100 PROFESSIONAL CENTER DR	BRUNSWICK	GA	31525	N302
17	01-0424-002-03-00	01-0424-002-03-00	5473	ST DELIGHT RD	MERCER CHRISTOPHER J	MERCER BRITTANY N	5473 SAINTS DELIGHT ROAD		GEORGETOWN	SC	29440	Q200
18	01-0424-002-00-00	01-0424-002-00-00	5551	ST DELIGHT RD	WILLARD WILLIAM D		PO BOX 411		MURRELLS INLET	SC	29576	Q302
19	01-0424-002-02-00	01-0424-002-02-00	5340	ST DELIGHT RD	GIBSON LISTON E		139 CROOKED ISLAND CIR		MURRELLS INLET	SC	29576	N200
20	01-0424-002-04-00	01-0424-002-04-00	5185	ST DELIGHT RD	GIBSON LISTON E	GIBSON KAY S	1351 COUNTY RD		WAYNESILLE	NC	28785	N300
21	01-0424-003-00-00	01-0424-003-00-00		ST DELIGHT RD	GLADSON JUDITH H		505 10TH AVENUE		CONWAY	SC	29526	Q302
22	01-0424-003-03-00	01-0424-003-03-00	4905	ST DELIGHT RD	RHUE FELIX H		875 KENT RD		GEORGETOWN	SC	29440	N200
23	01-0424-003-02-00	01-0424-003-02-00	4873	ST DELIGHT RD	TURNER MICHAEL W		95 SNOWBELL LANE		PAWLEYS ISLAND	SC	29585	N200
24	01-0424-003-01-00	01-0424-003-01-00	4837	ST DELIGHT RD	TURNER MICHAEL W		95 SNOWBELL LANE		PAWLEYS ISLAND	SC	29585	N200
25	01-0424-006-00-00	01-0424-006-00-00	4850	ST DELIGHT RD	THOMAS JOHN WALLACE	FLETCHER ZOEY	4850 ST DELIGHT RD		GEORGETOWN	SC	29440	Q200
26	01-0424-007-00-00	01-0424-007-00-00	4715	ST DELIGHT RD	THOMPSON STAN		1639 BRICK CHIMNEY ROAD		GEORGETOWN	SC	29440	N100
27	01-0442-026-13-00	01-0442-026-13-00		UNKNOWN	NEW GROWTH LLC		C/O: LARSON & MCGOWIN, LLC	P.O. BOX 1288	MOBILE	AL	36633	N302
28	01-0424-008-02-00	01-0424-008-02-00	4714	ST DELIGHT RD	LATHAN SIMONE R		4714 ST DELIGHT RD		GEORGETOWN	SC	29440	N200
29	01-0424-008-00-00	01-0424-008-00-00	4664	ST DELIGHT RD	SMITH BONNIE R JR	SMITH MARY ALICE P	4664 ST DELIGHT RD		GEORGETOWN	SC	29440	Q300
30	01-0424-011-00-00	01-0424-011-00-00		ST DELIGHT RD	FLOWERS FAMILY FARM LLC		C/O FLOWERS FAMILY FARM LLC	525 WINDSONG POINT LN	COLUMBIA	SC	29212	N200
31	01-0442-026-07-00	01-0442-026-07-00		ST DELIGHT RD	SANTEE TIMBERLANDS LP		9418 HIGHMARKET ST		GEORGETOWN	SC	29440	N302
32	01-0442-026-07-00	01-0442-026-07-00		ST DELIGHT RD	SANTEE TIMBERLANDS LP		9418 HIGHMARKET ST		GEORGETOWN	SC	29440	N302
33	01-0433-002-01-00	01-0433-002-01-00	1899	WILD HORSE RD	LAMBERT AMELIA		1899 WILDHORSE RD		GEORGETOWN	SC	29440	Q200
34	01-0433-002-04-00	01-0433-002-04-00	1899	WILD HORSE RD	LAMBERT SOLON JAMES		1899 WILD HORSE RD		GEORGETOWN	SC	29440	N300
35	01-0433-002-03-00	01-0433-002-03-00	1941	WILD HORSE RD	LAMBERT AMELIA E		1899 WILD HORSE RD		GEORGETOWN	SC	29440	Q065
36	01-0433-002-05-00	01-0433-002-05-00	1989	WILD HORSE RD	LAMBERT AMELIA E		1899 WILD HORSE RD.		GEORGETOWN	SC	29442	N200
37	01-0441-021-00-00	01-0441-021-00-00	2069	WILD HORSE RD	BRYANT RICHARD KIRKLAND JR		2069 WILDHORSE RD		GEORGETOWN	SC	29442	Q100
38	01-0441-022-00-00	01-0441-022-00-00	4978	WALKER RD	BURR CHARLES CASEY	BURR LINDA L	4978 WALKER RD		GEORGETOWN	SC	29440	Q065
39	01-0442-026-10-00	01-0442-026-10-00		UNKNOWN	RHODES FOREST LLC		C/O W MCLEOD RHODES	1820 SAVANNAH HWY	CHARLESTON	SC	29407	Q302
40	01-0441-005-01-00	01-0441-005-01-00	5133	WALKER RD	LAMBERT DONNIE LEO		5133 WALKER RD		GEORGETOWN	SC	29440	Q200
41	01-0441-005-00-00	01-0441-005-00-00	5181	WALKER RD	LAMBERT GAIL M		1890 LAMBERT LOOP		GEORGETOWN	SC	29440	Q302
42	01-0441-004-00-00	01-0441-004-00-00	2708	LAMBERT LOOP	DORSEY EMMA		PO BOX 172		ANDREWS	SC	29510	N200
43	01-0441-004-01-00	01-0441-004-01-00		WALKER RD	WILLIAMS SOLOMON M III		110 CASTLEFORD RD		MOORE	SC	29369	N200
44	01-0441-003-00-00	01-0441-003-00-00	2652	LAMBERT LOOP	BROWN JACQUELINE ANDERSON TRUSTEE		103 PRENTICE CIRCLE		GOOSE CREEK	SC	29445	N300
45	01-0441-002-00-00	01-0441-002-00-00	2580	LAMBERT LOOP	WILLIAMS CLIFTON S	WILLIAMS CHRISTEN M	18 STONE GARDEN CT		OWINGS MILLS	MD	21117	N200
46	01-0441-002-02-00	01-0441-002-02-00		WALKER RD	BROWN JACQUELINE ANDERSON TRUSTEE		103 PRENTICE CIRCLE		GOOSE CREEK	SC	29445	N200
47	01-0441-002-01-00	01-0441-002-01-00		WALKER RD	WILLIAMS CLIFTON S ET AL	WILLIAMS CLIFTON B	18 STONE GARDEN CT		OWINGS MILLS	MD	21117	N200
48	01-0441-001-00-00	01-0441-001-00-00		WALKER RD	WILLIAMS TENNYSON ET AL	CHRISTMAS MELLIE	C/O CHRISTMAS MELLIE	P O BOX 708	MONTCLAIR	NJ	07042	N300
49	01-0440-031-00-00	01-0440-031-00-00		WALKER RD	BROWN JACQUELINE ANDERSON TRUSTEE		103 PRENTICE CIRCLE		GOOSE CREEK	SC	29445	N200
50	01-0440-031-02-00	01-0440-031-02-00		WALKER RD	WILLIAMS GLENN ROOSEVELT		12 ESSEN DR		AMITYVILLE	NY	11701	N200
51	01-0440-031-01-00	01-0440-031-01-00		WALKER RD	BROWN JACQUELINE ANDERSON TRUSTEE		103 PRENTICE CIRCLE		GOOSE CREEK	SC	29445	N200
52	01-0440-030-00-00	01-0440-030-00-00		WALKER RD	WILLIAMS JACQUELINE M		6606 BROOKFIELD ROAD		COLUMBIA	SC	29206	N200
53	01-0440-029-00-00	01-0440-029-00-00	5617	WALKER RD	WILLIAMS JACQUELINE M		6606 BROOKFIELD ROAD		COLUMBIA	SC	29206	N200
54	01-0440-028-01-00	01-0440-028-01-00	5681	WALKER RD	LAMBERT FLOYD P LIFE ESTATE		C/O TERRI LAMBERT CLAYTON	703 POINT CIRCLE	SUMMERVILLE	SC	29485	Q100
55	01-0440-028-05-00	01-0440-028-05-00		WALKER RD	LAMBERT FLOYD P LIFE ESTATE		C/O TERRI LAMBERT CLAYTON	703 POINT CIRCLE	SUMMERVILLE	SC	29485	Q302
56	01-0440-028-00-00	01-0440-028-00-00	5779	WALKER RD	VALENTINE CYNTHIA C	BRANDON PEGGY C	5779 WALKER RD		GEORGETOWN	SC	29440	Q200
57	01-0440-025-03-00	01-0440-025-03-00	5891	WALKER RD	LAMBERT IRENE H		5891 WALKER ROAD		GEORGETOWN	SC	29440	Q200
58	01-0440-025-07-00	01-0440-025-07-00	210	LAMBERT LOOP	LAMBERT IRENE H		5891 WALKER ROAD		GEORGETOWN	SC	29440	Q302
59	01-0432-028-00-00	01-0432-028-00-00		WALKER RD	BARNHILL SANDRA L		348 CHEROKEE DR		GEORGETOWN	SC	29440	Q302
60	01-0432-028-01-00	01-0432-028-01-00		WALKER RD	PIATT MARCIA L N/K/A MARCIA LAMBERT MATTHEWS		405 BIRCH STREET		GEORGETOWN	SC	29440	Q302
61	01-0432-027-00-00	01-0432-027-00-00	1387	WALKER RD	GILES EDMOND ET AL	GILES KAREN DOAUD	C/O NAOMI DOTSON	2173 BERNARD WAY	SACRAMENTO	CA	95822	N300
62	01-0432-026-00-00	01-0432-026-00-00	6428	WALKER RD	TRINITY A M E CHURCH		6428 WALKER RD		GEORGETOWN	SC	29440	E890
63	01-0440-025-05-00	01-0440-025-05-00		WALKER RD	WINSTON MCKENZIE RENTALS LLC		638 DAVE MCKENZIE DR		ANDREWS	SC	29510	Q302
64	01-0432-060-00-00	01-0432-060-00-00	6449	WALKER RD	LAMBERT DAWSON ABBOTT		504 SQUIRE RD		ANDREWS	SC	29510	N065
65	01-0432-059-01-00	01-0432-059-01-00		WALKER RD	LAMBERT TONY K	LAMBERT CAROL M	565 WILLIE RD		GEORGETOWN	SC	29440	N000
66	01-0432-025-00-00	01-0432-025-00-00	6556	WALKER RD	LAMBERT DOROTHY D LIFE ESTATE		1152 - 10TH STREET EXT		LANCASTER	SC	29720	Q202

66	01-0432-058-00-00	01-0432-058-00-00	6539	WALKER RD	THOMAS JAMES LEWIS	THOMAS MARGARET MARIE	6539 WALKER RD		GEORGETOWN	SC	29440	Q100
67	01-0432-024-01-00	01-0432-024-01-00	6660	WALKER RD	THOMAS SAMUEL A JR		6660 WALKER ROAD		GEORGETOWN	SC	29440	Q200
68	01-0432-024-00-00	01-0432-024-00-00		WALKER RD	THOMAS MAKAYLA RENEE	THOMAS ALLISON TAYLOR	2537 US HWY 521		ANDREWS	SC	29510	N200
69	01-0432-024-04-00	01-0432-024-04-00		WALKER RD	SIMS BERNARD L		1615 LAMBERT LOOP		GEORGETOWN	SC	29440	Q202
71	01-0432-024-02-00	01-0432-024-02-00	6868	WALKER RD	CUSACK TRACEY D		6868 WALKER RD		GEORGETOWN	SC	29440	Q200
72	01-0432-023-00-00	01-0432-023-00-00	6944	WALKER RD	MCKENZIE JUSTIN KEITH	MCKENZIE JILLIAN PAIGE	6944 WALKER ROAD		GEORGETOWN	SC	29440	Q200
73	01-0432-023-01-00	01-0432-023-01-00	7002	WALKER RD	MCKENZIE JUSTIN KEITH	MCKENZIE JILLIAN PAIGE	6944 WALKER ROAD		GEORGETOWN	SC	29440	N200
74	01-0432-023-01-01	01-0432-023-01-01	7002	WALKER RD	LAMBERT CONNIE L	LAMBERT ROLAND M	7002 WALKER RD		GEORGETOWN	SC	29440	Q200
75	01-0432-051-00-00	01-0432-051-00-00	6991	WALKER RD	LAMBERT TONY KEVIN LIFE EST		6991 WALKER RD		GEORGETOWN	SC	29440	N200
76	01-0432-050-00-00	01-0432-050-00-00	7029	WALKER RD	GAILEY THOMAS D	GAILEY SHIRLEY L	7029 WALKER ROAD		GEORGETOWN	SC	29440	Q065
77	01-0432-020-02-00	01-0432-020-02-00	7036	WALKER RD	TERRY KERRY LAVON LIFE EST		7036 WALKER ROAD		GEORGETOWN	SC	29440	Q200
78	01-0432-022-00-00	01-0432-022-00-00	7066	WALKER RD	FREEMAN DONALD		7042 WALKER RD		GEORGETOWN	SC	29440	N065
79	01-0432-021-00-00	01-0432-021-00-00	34	WINDUM DR	CLAWSON WAYNE L	MCGRAIL-CLAWSON NANCY E	C/O PERTINS/ELIJAH SANDERS	34 WINDUM DR	GEORGETOWN	SC	29440	Q065
80	01-0432-017-02-00	01-0432-017-02-00		WINDUM DR	THOMAS LINDA J		8249 SAINT DELIGHT RD		ANDREWS	SC	29510	Q302
81	01-0432-020-01-00	01-0432-020-01-00	190	WINDUM DR	TERRY ALTON B		190 WINDUM DR		GEORGETOWN	SC	29440	Q065
82	01-0432-020-01-01	01-0432-020-01-01	212	WINDUM DR	GARDNER JOSHUA MATTHEW		9561 ST DELIGHT ROAD		ANDREWS	SC	29510	N000
83	01-0432-065-00-00	01-0432-065-00-00	290	WINDUM DR	GEORGETOWN COUNTY GOVERNMENT		P O BOX 421270		GEORGETOWN	SC	29442	E930
84	01-0432-019-00-00	01-0432-019-00-00	312	WINDUM DR	THOMAS JAMES CLARENCE HRS		% ANN LAMBERT	1851 WAX MYRTLE DR	FLORENCE	SC	29501	N065
85	01-0432-019-01-00	01-0432-019-01-00	326	WINDUM DR	BRILL PAUL		326 WINDUM RD		ANDREWS	SC	29510	Q100
86	01-0432-013-01-02	01-0432-013-01-02	360	WINDUM DR	JORDAN MOLDON D JR LIFE ESTATE		360 WINDUM DRIVE		ANDREWS	SC	29510	N101
87	01-0432-013-01-00	01-0432-013-01-00	8161	SAINTS DELIGHT RD	WILSON MARCIA P		2383 SANTEE RD		ANDREWS	SC	29510	N200
88	01-0432-062-00-00	01-0432-062-00-00		ST DELIGHT RD	BLAKE AMELIA JOHNSON TRUSTEE		458 DOVE ST		GEORGETOWN	SC	29440	Q302
88	01-0432-015-00-00	01-0432-015-00-00	124	BENNY RD	WICKERSON BEN HRS		C/O ROBERT ELMORE JR	124 BENNY RD	ANDREWS	SC	29510	N065
89	01-0432-064-00-00	01-0432-064-00-00		TOM BLAKE RD	BLAKE AMELIA JOHNSON TRUSTEE		458 DOVE ST		GEORGETOWN	SC	29440	Q302
90	01-0432-064-01-00	01-0432-064-01-00		ST DELIGHT RD	BLAKE AMELIA JOHNSON TRUSTEE		458 DOVE ST		GEORGETOWN	SC	29440	Q302
91	01-0432-064-02-00	01-0432-064-02-00	6679	SAINT DELIGHTS RD	HOLDEN IVAN RHETT		1684 MONTFORD RD		GEORGETOWN	SC	29440	Q302







# Attachment C

## USACE Wetland and Stream Mitigation Worksheets

LOW GRADIENT STREAM ASSESSMENT DATA SHEET				
Stream Name <b>Stream 3</b>		Basin/Watershed: <b>Sampit River</b>		USGS Quad:
Latitude:		Longitude:		County: <b>Georgetown</b>
Date:		Time:		Investigator:
Stream width: <b>5'</b>		Stream Depth: <b>5'</b>		Length of Stream Reach:
Has it rained within the past 48 hours?			Adjacent land use? (Industrial, agriculture, etc): <b>Silviculture</b>	
Habitat	Condition Category			
Parameter	Fully Functional	Partially Impaired	Impaired	Very Impaired
<b>1.Epifaunal Substrate or Available Cover</b>	Greater than 50% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e.logs/snags that are <u>not</u> new fall and <u>not</u> transient).	30-50% mix of stable habitat; well suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of new fall, but not yet prepared for colonization	10-30% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 10% stable habitat lack of habitat is obvious; substrate unstable or lacking.
<b>SCORE</b>	2.0	1.5	1.0	<b>0.5</b>
<b>2.Pool Substrate Characterization</b>	Mix of substrate materials, with gravel and firm sand prevalent; root mats and submerged vegetation common.	Mix of soft sand, mud, or clay; mud may be dominant; some root mats and submerged vegetation present.	All mud or clay or sand bottom; little or no root mat; no submerged vegetation.	Hard-pan, clay, or bedrock; no root mat or vegetation.
<b>SCORE</b>	2.0	1.5	<b>1.0</b>	0.5
<b>3.Pool variability</b>	Even mix of large-shallow, large-deep, small-shallow, small-deep pools present.	Majority of pools large-deep; very few shallow.	Shallow pools much more prevalent than deep pools.	Majority of pools small-shallow or pools absent.
<b>SCORE</b>	2.0	1.5	1.0	<b>0.5</b>
<b>4.Sediment Deposition</b>	Little or no enlargement of islands or point bars and less than 20% of the bottom affected by sediment deposition.	Some new increase in bar formation, mostly from gravel, sand or fine sediment. 20-50% of the bottom affected; slight deposition in pools.	Moderate deposition of new gravel, sand or fine sediment on old and new bars; 50-80% of the bottom affected; sediment deposits at obstructions, constrictions, and bends; moderate deposition of pools prevalent.	Heavy deposits of fine material, increased bar development; more than 80% of the bottom changing frequently; pools almost absent due to substantial sediment deposition.
<b>SCORE</b>	2.0	1.5	1.0	<b>0.5</b>
<b>5.Channel Flow Status</b>	Water reaches base of both lower banks, and minimal amount of channel substrate is exposed.	Water fills > 75% of the available channel or < 25% of channel substrate is exposed.	Water fills 25-75% of the available channel, and/or riffle substrates are mostly exposed.	Very little water in channel and mostly present as standing pools.
<b>SCORE</b>	2.0	1.5	1.0	<b>0.5</b>
<b>6.Channel Alteration</b>	Channelization or dredging absent or minimal; stream with normal pattern	Some channelization present, usually in areas of bridge abutments; evidence of past channelization (greater than past 20 yr.) may be present, but recent channelization not present.	Channelization may be extensive; embankments or shoring structures present on both banks; and 40-80% of stream reach channelized and disrupted.	Banks shored with gabion or cement; over 80% of the stream reach channelized and disrupted. In stream habitat greatly altered or removed entirely.
<b>SCORE</b>	2.0	1.5	1.0	<b>0.5</b>
<b>7.Channel Sinuosity</b>	The bends in the stream increase the stream length 3-4X longer than if it was in a straight line (If braided channel, this parameter is difficult to rate.)	The bends in the stream increase the stream length 2-3X longer than if it was in a straight line.	The bends in the stream increase the stream length 2 to 1 times longer than if it was in a straight line.	Channel straight; waterway has been channelized for a long distance.
<b>SCORE</b>	2.0	1.5	1.0	<b>0.5</b>
<b>8.Bank Stability</b>	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. < 5% of bank affected.	Moderately stable; infrequent, small areas of erosion mostly healed over; 5-30% of bank in reach has areas of erosion.	Moderately unstable; 30-60% of bank in reach has areas of erosion; high erosion potential during floods.	Unstable; many eroded areas; "raw" areas frequent along straight sections and bends; obvious bank sloughing; 60-100% of bank has erosion scars.
<b>SCORE</b>	Left Bank 1.0	<b>0.75</b>	0.50	0.25
<b>SCORE</b>	Right Bank 1.0	<b>0.75</b>	0.50	0.25
<b>9.Vegetative Protection</b>	>90% of SB surfaces and adjacent riparian zone covered by native vegetation, including trees, understory shrubs, or non-woody macrophytes. minimal or no evidence of grazing or mowing; almost all plants allowed to grow naturally	70-90% of the SB surfaces covered by native vegetation but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential more than 1/2 of potential plant stubble height remaining	50-70% of SB covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than 1/2 potential plant stubble height remaining.	<50% of SB surfaces covered by vegetation; disruption of SB vegetation is very high; vegetation has been removed to 5 cm. or less in average stubble height.
<b>SCORE</b>	Left Bank 1.0	0.75	<b>0.50</b>	0.25
<b>SCORE</b>	Right Bank 1.0	0.75	<b>0.50</b>	0.25
<b>10.Riparian Veg Zone Width</b>	Width of riparian zone>18 meters; human activities (roads, clear-cuts, lawns, crops, parking lots) have not impacted zone.	Width of riparian zone 12-18 meters; human activities have impacted zone only minimally.	Width of riparian zone 6-12 meters; human activities have impacted zone a great deal.	Width of riparian zone < 6 meters; little or no riparian vegetation due to human activities.
<b>SCORE</b>	Left Bank 1.0	0.75	<b>0.50</b>	0.25
<b>SCORE</b>	Right Bank 1.0	0.75	<b>0.50</b>	0.25

Total Score: **7.5** **Impaired** NOTES/COMMENTS:

LOW GRADIENT STREAM ASSESSMENT DATA SHEET				
Stream Name <b>Stream 5</b>		Basin/Watershed: <b>Sampit River</b>		USGS Quad:
Latitude:		Longitude:		County: <b>Georgetown</b>
Date:		Time:		Investigator:
Stream width: <b>10'</b>		Stream Depth: <b>5'</b>		Length of Stream Reach:
Has it rained within the past 48 hours?			Adjacent land use? (Industrial, agriculture, etc): <b>Silviculture</b>	
Habitat	Condition Category			
Parameter	Fully Functional	Partially Impaired	Impaired	Very Impaired
<b>1.Epifaunal Substrate or Available Cover</b>	Greater than 50% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e.logs/snags that are <u>not</u> new fall and <u>not</u> transient).	30-50% mix of stable habitat; well suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of new fall, but not yet prepared for colonization	10-30% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed.	Less than 10% stable habitat lack of habitat is obvious; substrate unstable or lacking.
<b>SCORE</b>	2.0	1.5	1.0	<b>0.5</b>
<b>2.Pool Substrate Characterization</b>	Mix of substrate materials, with gravel and firm sand prevalent; root mats and submerged vegetation common.	Mix of soft sand, mud, or clay; mud may be dominant; some root mats and submerged vegetation present.	All mud or clay or sand bottom; little or no root mat; no submerged vegetation.	Hard-pan, clay, or bedrock; no root mat or vegetation.
<b>SCORE</b>	2.0	1.5	<b>1.0</b>	0.5
<b>3.Pool variability</b>	Even mix of large-shallow, large-deep, small-shallow, small-deep pools present.	Majority of pools large-deep; very few shallow.	Shallow pools much more prevalent than deep pools.	Majority of pools small-shallow or pools absent.
<b>SCORE</b>	2.0	1.5	1.0	<b>0.5</b>
<b>4.Sediment Deposition</b>	Little or no enlargement of islands or point bars and less than 20% of the bottom affected by sediment deposition.	Some new increase in bar formation, mostly from gravel, sand or fine sediment. 20-50% of the bottom affected; slight deposition in pools.	Moderate deposition of new gravel, sand or fine sediment on old and new bars; 50-80% of the bottom affected; sediment deposits at obstructions, constrictions, and bends; moderate deposition of pools prevalent.	Heavy deposits of fine material, increased bar development; more than 80% of the bottom changing frequently; pools almost absent due to substantial sediment deposition.
<b>SCORE</b>	2.0	1.5	1.0	<b>0.5</b>
<b>5.Channel Flow Status</b>	Water reaches base of both lower banks, and minimal amount of channel substrate is exposed.	Water fills > 75% of the available channel or < 25% of channel substrate is exposed.	Water fills 25-75% of the available channel, and/or riffle substrates are mostly exposed.	Very little water in channel and mostly present as standing pools.
<b>SCORE</b>	2.0	1.5	1.0	<b>0.5</b>
<b>6.Channel Alteration</b>	Channelization or dredging absent or minimal; stream with normal pattern	Some channelization present, usually in areas of bridge abutments; evidence of past channelization (greater than past 20 yr.) may be present, but recent channelization not present.	Channelization may be extensive; embankments or shoring structures present on both banks; and 40-80% of stream reach channelized and disrupted.	Banks shored with gabion or cement; over 80% of the stream reach channelized and disrupted. In stream habitat greatly altered or removed entirely.
<b>SCORE</b>	2.0	1.5	1.0	<b>0.5</b>
<b>7.Channel Sinuosity</b>	The bends in the stream increase the stream length 3-4X longer than if it was in a straight line (If braided channel, this parameter is difficult to rate.)	The bends in the stream increase the stream length 2-3X longer than if it was in a straight line.	The bends in the stream increase the stream length 2 to 1 times longer than if it was in a straight line.	Channel straight; waterway has been channelized for a long distance.
<b>SCORE</b>	2.0	1.5	1.0	<b>0.5</b>
<b>8.Bank Stability</b>	Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. < 5% of bank affected.	Moderately stable; infrequent, small areas of erosion mostly healed over; 5-30% of bank in reach has areas of erosion.	Moderately unstable; 30-60% of bank in reach has areas of erosion; high erosion potential during floods.	Unstable; many eroded areas; "raw" areas frequent along straight sections and bends; obvious bank sloughing; 60-100% of bank has erosion scars.
<b>SCORE</b>	Left Bank 1.0	<b>0.75</b>	0.50	0.25
<b>SCORE</b>	Right Bank 1.0	<b>0.75</b>	0.50	0.25
<b>9.Vegetative Protection</b>	>90% of SB surfaces and adjacent riparian zone covered by native vegetation, including trees, understory shrubs, or non-woody macrophytes. minimal or no evidence of grazing or mowing; almost all plants allowed to grow naturally	70-90% of the SB surfaces covered by native vegetation but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential more than 1/2 of potential plant stubble height remaining	50-70% of SB covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than 1/2 potential plant stubble height remaining.	<50% of SB surfaces covered by vegetation; disruption of SB vegetation is very high; vegetation has been removed to 5 cm. or less in average stubble height.
<b>SCORE</b>	Left Bank 1.0	0.75	<b>0.50</b>	0.25
<b>SCORE</b>	Right Bank 1.0	0.75	<b>0.50</b>	0.25
<b>10.Riparian Veg Zone Width</b>	Width of riparian zone>18 meters; human activities (roads, clear-cuts, lawns, crops, parking lots) have not impacted zone.	Width of riparian zone 12-18 meters; human activities have impacted zone only minimally.	Width of riparian zone 6-12 meters; human activities have impacted zone a great deal.	Width of riparian zone < 6 meters; little or no riparian vegetation due to human activities.
<b>SCORE</b>	Left Bank 1.0	0.75	<b>0.50</b>	0.25
<b>SCORE</b>	Right Bank 1.0	0.75	<b>0.50</b>	0.25

Total Score: **7.5** **Impaired** NOTES/COMMENTS:

## Determination of Stream Credits

### 3.0 Table and Worksheet

Working Draft, Subject to Change

Last Revised: October 07, 2010

Adverse Impact Factors Table for Linear Systems										
FACTORS	OPTIONS									
Stream Type <sup>1</sup>	Non-RPW 0.10			1 <sup>st</sup> and 2 <sup>nd</sup> Order RPWs 0.8			All Other Streams 0.4			
Priority Category	Tertiary 0.1			Secondary 0.4			Primary 0.6			
Existing Condition	Very Impaired 0.1		Impaired 0.5		Partially Impaired 0.75		Fully Functional 1.5			
Duration	Temporary 0.05			Recurrent 0.1			Permanent 0.3			
Dominant Impact	Shade / Clear 0.05	Utility Crossing 0.15	Culvert 0.3	Armor 0.5	Detention / Weir 0.75	Morpho-Logic 1.5	Impound / Flood 2.0	Pipe 2.2	Fill 2.5	
Cumulative Impact (LF)	< 50' .01		51-300' 0.10		301-500' 0.20		501-1000' 0.40		1001-6000' 1.5	> 6000' 3.0

<sup>1</sup> Stream type does not include man-made linear features. These features will be evaluated on a case-by-case basis.

Required Mitigation Credits Worksheet for Linear Systems						
FACTOR	IMPACT 1	IMPACT 2	IMPACT 3	IMPACT 4	IMPACT 5	IMPACT 6
Stream Type	1st & 2nd Order RPW					
Priority Category	Tertiary					
Existing Condition	Impaired					
Duration	Permanent					
Dominant Impact	Culvert					
Cumulative Impact	51-300'					
Sum of R Factors	2.1					
Linear Feet Impact	69					
R x LL =	144.9					

**Total Required Credits =  $\Sigma$  (R x LL) =**

**144.9**

## Required Wetland Mitigation Credit Table and Worksheet



**TIP:** Leave cursor over each factor or option below to pop-up helpful information or definitions.

**Required Wetland Mitigation Credit Table**

FACTORS	OPTIONS					
Lost Type	Type C 0.2		Type B 2.0		Type A 3.0	
Priority Category	Tertiary 0.5		Secondary 1.5		Primary 2.0	
Existing Condition	Very Impaired 0.1	Impaired 1.0		Partially Impaired 2.0	Fully Functional 2.5	
Duration	0 to 1 Year 0.2	1 to 3 Years 0.5	3 to 5 Years 1.0	5 to 10 Years 1.5	Over 10 Years 2.0	
Dominant Impact	Shade 0.2	Clear 1.0	Drain 2.0	Dredge 2.5	Impound/Flood 2.5	Fill 3.0
Cumulative Impact	< 0.25 Acre 0.1	0.25 - 0.99 Acres 0.2	1.0 - 2.99 Acres 0.5	3.0 - 9.99 Acres 1.0	≥ 10.0 Acres 2.0	

**NOTE:** The cumulative impact factor for the overall project should be included in the sum of factors for each impacted area on the Required Wetland Mitigation Credit Worksheet

**Required Wetland Mitigation Credit Worksheet**

FACTOR	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6
Lost Type	Type B					
Priority Category	Tertiary					
Existing Condition	Impaired					
Duration	Over 10 Years					
Dominant Impact	Fill					
Cumulative Impact	< 0.25 Acre					
Sum of Factors	8.6					
Impacted Area	0.165					
R x AA=	1.419					

Required Wetland Mitigation Credits =  $\Sigma (R \times A) =$

**1.419**

# Attachment D

## Agency Consultation

December 8, 2021

## U.S. Fish and Wildlife Service

South Carolina Ecological Services Field Office  
176 Croghan Spur Road, Suite 200  
Charleston, SC 29407

**SUBJECT: Silicon Ranch Lambert I and II Solar Facility (Georgetown County, South Carolina)**

Silicon Ranch Corporation (SRC) is proposing to construct SR Lambert I and II photovoltaic solar facilities (Project) located in Georgetown County, South Carolina about 7 miles south of the Town of Andrews between Saints Delight Road and Walker Road (**Appendix A - Figure 1 and 2**). This letter assesses the Project effects on federally listed species protected under the Endangered Species Act.

## PROJECT DESCRIPTION

The Project site is owned by Resource Management Service timber company, with which SRC has an agreement to explore solar development options. Two solar arrays are proposed within the 2,082-acre site (Study Area), known as Lambert I and II. The Lambert I area is proposed in the northeastern portion of the site. The Lambert II area is proposed in the southern portion of the site (**Appendix A - Project Design Plans**).

The Project would involve the construction of solar panels supported by driven piles, gravel access roads, a site boundary fence, temporary sediment basins for stormwater management, underground electrical conductor lines, along with the construction of a substation and switching station. The Project site has historically been used for silviculture for several decades. The majority of the site has been recently timbered by the current landowner. Grubbing of tree stumps and minor grading would be conducted by SRC in preparation for Project construction. Some temporary impacts would occur on timbered wetlands which would remain underneath the panels and be stabilized with a wetland seed mix. Construction of the solar facilities is tentatively scheduled to begin in spring or summer of 2022.

## METHODS

A desktop review and site investigation were conducted of the Study Area by HDR, Inc. (HDR). The United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) database and the South Carolina Department of Natural Resources (SCDNR) database was used to identify and analyze the federally protected species with a potential to occur within the Study Area (See **Table 1** and **Appendix B, Species Reports**). These database searches helped to focus the site investigation on the specific habitat in the Study Area that could support the federally protected species. A site investigation was initially conducted on July 21, 2020 to confirm the presence or absence of suitable habitat for federal listed species and collect data supporting effects determinations. The site has since been revisited in October 2021 for an updated site conditions assessment.

**Table 1. Federally Protected Species analyzed for Project Effects**

Species	Habitat	Federal Status <sup>1</sup>	Record Status <sup>2</sup>	Survey window	Habitat Present
<b>REPTILES</b>					
Green sea turtle <i>Chelonia mydas</i>	Open oceans and inland bodies of water; nesting habitat nearshore	T	No record	NA	No

Species	Habitat	Federal Status <sup>1</sup>	Record Status <sup>2</sup>	Survey window	Habitat Present
Kemp's ridley sea turtle <i>Lepidochelys kempii</i>	Open oceans and inland bodies of water; nesting habitat nearshore	E	No record	NA	No
Leatherback sea turtle <i>Dermochelys coriacea</i>	Open oceans and inland bodies of water; nesting habitat nearshore	E	No record	NA	No
Loggerhead sea turtle <i>Caretta caretta</i>	Open oceans and inland bodies of water; nesting habitat nearshore	T	Current	NA	No
<b>MAMMALS</b>					
Northern long-eared bat <i>Myotis septentrionalis</i>	Hibernate in caves, mines, or tunnels during winter; roosts in tree bark and cavities in summer	T	No record	April 1 to Nov 15	Yes (summer)
<b>PLANTS</b>					
American chaffseed <i>Schwalbea americana</i>	Sandy, acidic, seasonally moist to dry soils; areas frequently mowed; open, moist pine flatwoods	E	No record	April to June	No
Canby's dropwort <i>Oxypolis canbyi</i>	Cypress ponds and sloughs, and wet savannas	E	No record	Aug to Oct	No
Pondberry <i>Lindera melissifolia</i>	Wetland sinks, ponds, and other depressions in coastal areas	E	No record	Feb to mid-March	No
<b>INSECTS</b>					
Monarch butterfly <i>Danaus plexippus</i>	Habitat with milkweeds plants ( <i>Asclepias</i> spp.), the primary food plant for larvae	C	No record	Summer to Fall	Yes (foraging)
<b>BIRDS</b>					
Bald eagle <i>Haliaeetus leucocephalus</i>	Rivers, lakes, marshes, and ponds	BGEPA	Current	Oct 1 to May 15	No
Eastern black rail <i>Laterallus jamaicensis</i>	Salt and brackish marshes with dense cover	T	Current	April to June	No
Piping plover <i>Charadrius melodus</i>	Ocean shores with sparse vegetation; in winter - coastal beaches, sandflats, and mudflats	T	No record	March 1 to July 31	No
Red knot <i>Calidris canutus rufa</i>	Sandy beaches, salt marshes, lagoons, mudflats, estuaries, bays, mangroves	T	No record	July to Nov	No
Red-cockaded woodpecker <i>Picoides borealis</i>	Nest in mature (over 80 years) longleaf and southern pine forests; Forage in stands over 30 years old	E	Current	March 1 to July 31	No
Wood stork <i>Mycteria americana</i>	Freshwater and estuarine wetlands, primarily nesting in cypress or mangroves	T	Current	Feb 15 to Sep 1	No

1 T = Threatened; E = Endangered; C = Candidate; BGEPA = Bald and Golden Eagle Protection Act

2 Current = The species has been observed in the county within the last 50 years.

## DISCUSSION

The Study Area has been used for silviculture for over fifty years. The silviculture practices have reduced the flora and fauna diversity and altered hydrology and soils in the Study Area. Currently, the site is dominated by large open, timbered areas and limited remaining tracts of planted pine (15-25 years of age). The Study Area also contains grassy areas with sandy soils along a maintained electrical transmission utility right-of-way (ROW) and forested wetlands with loamy soils (**Appendix A, Site Photographs** and **Appendix A, Figures 3 and 4**).

The Project is expected to result in about 2 acres of permanent impacts on wetlands during the construction of gravel access roads and substations. The Project would also result in approximately 135